

A List of the Simplicial Neighbourly 5-Polytopes With Nine Vertices

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Abstract

We list the 126 known realizable simplicial, neighbourly 5-polytopes with nine vertices. In particular, we give a complete combinatorial descriptions of each one, including: facets, universal edges, vertex figures, subpolytopes, universal vertices, and missing 2-faces.

1 Introduction

The simplicial neighbourly d -polytopes with $d + 3$ and fewer vertices are known to researchers. In contrast, little is known about the simplicial, neighbourly d -polytopes with $d+4$ vertices. In 1967, Grünbaum and Sreedharan (cf [8]) published a list of the thirty-seven simplicial 4-polytopes with eight vertices, three of which are neighbourly. Throughout this paper, we refer to this list as the G-S list. The list may be found in Table 2 in Appendix A. Twenty years later, Bokowski and Shemer (cf [2]) proved that there are exactly thirty-seven neighbourly 6-polytopes with ten vertices. This list may be found in Table 3 in Appendix A. In [5], we show that there are at least fifty-six simplicial neighbourly 5-polytopes with nine vertices. Surprisingly, only fifty-five of them are vertex figures of the neighbourly 6-polytopes with ten vertices. The other polytope is not.

In [?], we show that there are at least one hundred, twenty-six neighbourly 5-polytopes with nine vertices, fifty-five of which are the vertex figures of the neighbourly 6-polytopes with ten vertices. Included in [?] is an analysis of some of the properties of these polytopes.

Here, we give a list of the 126 realizable simplicial Neighbourly 5-polytopes with nine vertices. A complete combinatorial description of each one, including its list of facets, universal vertices, universal edges, vertex figures, subpolytopes, and missing 2-faces may be found in Table 1 of Section 2.

2 Notations and Terminology

The notation and terminology in this paper follow [7]. In particular, we assume the reader is familiar with cyclic and neighbourly polytopes. We recall that when \mathcal{P} is a neighbourly d -polytope, and d is even, then \mathcal{P} is also simplicial. This is not necessarily true when the dimension of \mathcal{P} is odd.

Let X be a set of points in \mathfrak{R}^d . Let $\text{conv}(X)$ denote the convex hull of X . For sets X_1, X_2, \dots, X_k , let $[X_1 \cup X_2 \cup \dots \cup X_k] = \text{conv}(X_1, X_2, \dots, X_k)$, and for a point $x \in \mathfrak{R}^d$, let $[x] = \{x\}$.

Two d -polytopes, \mathcal{P} and \mathcal{Q} , are said to be *combinatorially equivalent* if there exists a one-to-one correspondence ϕ between the set of faces of \mathcal{P} and the set of faces of \mathcal{Q} such that ϕ is inclusion preserving. If \mathcal{P} is combinatorially equivalent to \mathcal{Q} , then we write $\mathcal{P} \approx \mathcal{Q}$.

Throughout this paper, we make the following assumptions. Let $\mathcal{P} \subset \mathfrak{R}^d$ be a d -polytope, with $d \geq 4$. Let $V(\mathcal{P})$ denote the set of vertices of \mathcal{P} , and $\mathcal{F}(\mathcal{P})$ denote the set of facets of \mathcal{P} . Let $x \in V(\mathcal{P})$. The *subpolytope* $\mathcal{P} \setminus x$ of the polytope \mathcal{P} is the convex hull of $V(\mathcal{P}) \setminus \{x\}$. Let H be a hyperplane that strictly separates x from $V(\mathcal{P}) \setminus \{x\}$. The *vertex figure* \mathcal{P}/x of \mathcal{P} at x is the intersection of \mathcal{P} with the hyperplane H ; that is, $\mathcal{P}/x = \mathcal{P} \cap H$.

If \mathcal{P} is a simplicial neighbourly 5-polytope with nine vertices, we note that

1. $\dim(\mathcal{P}/x) = 4$, and
2. G is a face of \mathcal{P}/x if, and only if, $[x, G]$ is a face of \mathcal{P} ,

and \mathcal{P}/x is a neighbourly 4-polytope with eight vertices. Thus \mathcal{P}/x is combinatorially equivalent to some \mathcal{G} on the G-S list.

We note that the subpolytope of a simplicial neighbourly 5-polytope with nine vertices is a simplicial neighbourly 5-polytope with eight vertices. In 1973, Altshuler and McMullen proved that there are exactly two; they may be found in Table 4.

We say x is a *universal vertex* of a 5-polytope, \mathcal{P} , if for each set $\{y, z\} \subset V(\mathcal{P})$, $[x, y, z]$ is a 2-face of \mathcal{P} . Similarly, we say $[x, y]$ is a *universal edge* of a 5-polytope, \mathcal{P} , if for every $z \notin \{x, y\} \subset V(\mathcal{P})$, $[x, y, z]$ is a 2-face of \mathcal{P} . We say $F = [x, y, z]$ is a *missing 2-face* of \mathcal{P} if F is not a 2-face of \mathcal{P} .

3 The list of simplicial neighbourly 5-polytopes with nine vertices

We abbreviate universal vertices by UVs, universal edges by UEs, and missing 2-faces by MFs.

We denote the vertex x_i by i in the table below.

Polytope	\mathcal{P}_1^2
Facets	12345 12349 12359 12458 12489 12568 12569 12678 12679 12789 13456 13467 13478 13489 13569 13679 13789 14567 14578 15678 23458 23489 23589 25689 26789 34568 34678 35689 36789 45678
UVs	1 8
UEs	12 13 14 15 16 17 18 19 28 29 34 38 39 48 56 58 67 68 78 89
MFs	236 237 246 247 257 357 459 469 479 579
Vertex Figures	$\mathcal{P}_1^2/x_1 \approx \mathcal{G}_{20}^2$ $\mathcal{P}_1^2/x_2 \approx \mathcal{G}_{15}^2$ $\mathcal{P}_1^2/x_3 \approx \mathcal{G}_{17}^6$ $\mathcal{P}_1^2/x_4 \approx \mathcal{G}_{15}^2$ $\mathcal{P}_1^2/x_5 \approx \mathcal{G}_{16}^2$ $\mathcal{P}_1^2/x_6 \approx \mathcal{G}_{17}^6$ $\mathcal{P}_1^2/x_7 \approx \mathcal{G}_{14}^3$ $\mathcal{P}_1^2/x_8 \approx \mathcal{G}_{20}^2$ $\mathcal{P}_1^2/x_9 \approx \mathcal{G}_{16}^3$
Subpolytopes	$\mathcal{P}_1^2 \setminus x_1 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_1^2 \setminus x_2 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_1^2 \setminus x_3 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_1^2 \setminus x_4 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_1^2 \setminus x_5 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_1^2 \setminus x_6 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_1^2 \setminus x_7 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_1^2 \setminus x_8 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_1^2 \setminus x_9 \approx \mathcal{C}(8, 5)$
Polytope	\mathcal{P}_2^2
Facets	12345 12349 12356 12367 12378 12389 12458 12489 12568 12678 13459 13569 13679 13789 14567 14569 14578 14679 14789 15678 23458 23489 23568 23678 34589 35689 36789 45678 45689 46789
UVs	1 8
UEs	12 13 14 15 16 17 18 19 23 28 38 39 45 48 49 56 58 67 68 78 89
MFs	246 247 257 259 269 279 346 347 357 579
Vertex Figures	$\mathcal{P}_2^2/x_1 \approx \mathcal{G}_{20}^1$ $\mathcal{P}_2^2/x_2 \approx \mathcal{G}_{14}^3$ $\mathcal{P}_2^2/x_3 \approx \mathcal{G}_{17}^6$ $\mathcal{P}_2^2/x_4 \approx \mathcal{G}_{16}^5$ $\mathcal{P}_2^2/x_5 \approx \mathcal{G}_{16}^3$ $\mathcal{P}_2^2/x_6 \approx \mathcal{G}_{17}^6$ $\mathcal{P}_2^2/x_7 \approx \mathcal{G}_{14}^3$ $\mathcal{P}_2^2/x_8 \approx \mathcal{G}_{20}^1$ $\mathcal{P}_2^2/x_9 \approx \mathcal{G}_{16}^3$
Subpolytopes	$\mathcal{P}_2^2 \setminus x_1 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_2^2 \setminus x_2 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_2^2 \setminus x_3 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_2^2 \setminus x_4 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_2^2 \setminus x_5 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_2^2 \setminus x_6 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_2^2 \setminus x_7 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_2^2 \setminus x_8 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_2^2 \setminus x_9 \approx \mathcal{C}(8, 5)$
Polytope	\mathcal{P}_3^2

Facets	12345 12348 12356 12367 12378 12459 12489 12568 12589 12678 13459 13467 13469 13478 13569 14679 14789 15678 15679 15789 23458 23568 23678 24589 34589 34678 34689 35689 46789 56789
UVs	1 8
UEs	12 13 14 15 16 17 18 19 28 34 36 38 48 49 58 59 67 68 78 89
MFs	239 246 247 257 269 279 357 379 456 457
Vertex Figures	$\mathcal{P}_3^2/x_1 \approx \mathcal{G}_{20}^2$ $\mathcal{P}_3^2/x_2 \approx \mathcal{G}_{14}^2$ $\mathcal{P}_3^2/x_3 \approx \mathcal{G}_{17}^4$ $\mathcal{P}_3^2/x_4 \approx \mathcal{G}_{16}^5$ $\mathcal{P}_3^2/x_5 \approx \mathcal{G}_{16}^2$ $\mathcal{P}_3^2/x_6 \approx \mathcal{G}_{17}^4$ $\mathcal{P}_3^2/x_7 \approx \mathcal{G}_{14}^2$ $\mathcal{P}_3^2/x_8 \approx \mathcal{G}_{20}^2$ $\mathcal{P}_3^2/x_9 \approx \mathcal{G}_{16}^3$
Subpolytopes	$\mathcal{P}_3^2 \setminus x_1 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_3^2 \setminus x_2 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_3^2 \setminus x_3 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_3^2 \setminus x_4 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_3^2 \setminus x_5 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_3^2 \setminus x_6 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_3^2 \setminus x_7 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_3^2 \setminus x_8 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_3^2 \setminus x_9 \approx \mathcal{C}(8, 5)$
Polytope	\mathcal{P}_4^2
Facets	12356 12359 12369 12458 12459 12489 12568 12678 12679 12789 13456 13459 13467 13478 13489 13679 13789 14567 14578 15678 23568 23589 23689 24589 26789 34568 34589 34678 36789 45678
UVs	1 8
UEs	12 13 14 15 16 17 18 19 28 29 36 38 39 45 48 58 67 68 78 89
MFs	234 237 246 247 257 357 469 479 569 579
Vertex Figures	$\mathcal{P}_4^2/x_1 \approx \mathcal{G}_{20}^3$ $\mathcal{P}_4^2/x_2 \approx \mathcal{G}_{15}^1$ $\mathcal{P}_4^2/x_3 \approx \mathcal{G}_{17}^4$ $\mathcal{P}_4^2/x_4 \approx \mathcal{G}_{15}^2$ $\mathcal{P}_4^2/x_5 \approx \mathcal{G}_{16}^2$ $\mathcal{P}_4^2/x_6 \approx \mathcal{G}_{17}^3$ $\mathcal{P}_4^2/x_7 \approx \mathcal{G}_{14}^3$ $\mathcal{P}_4^2/x_8 \approx \mathcal{G}_{20}^3$ $\mathcal{P}_4^2/x_9 \approx \mathcal{G}_{16}^5$
Subpolytopes	$\mathcal{P}_4^2 \setminus x_1 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_4^2 \setminus x_2 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_4^2 \setminus x_3 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_4^2 \setminus x_4 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_4^2 \setminus x_5 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_4^2 \setminus x_6 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_4^2 \setminus x_7 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_4^2 \setminus x_8 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_4^2 \setminus x_9 \approx \mathcal{C}(8, 5)$
Polytope	\mathcal{P}_5^2
Facets	12345 12348 12356 12367 12378 12458 12569 12589 12678 12689 13459 13467 13469 13478 13569 14578 14579 14679 15789 16789 23458 23568 23678 25689 34589 34678 34689 35689 45789 46789
UVs	1 8
UEs	12 13 14 15 16 17 18 19 28 34 36 38 48 58 59 68 69 78 89
MFs	239 246 247 249 257 279 357 379 456 567
Vertex Figures	$\mathcal{P}_5^2/x_1 \approx \mathcal{G}_{20}^3$ $\mathcal{P}_5^2/x_2 \approx \mathcal{G}_{14}^1$ $\mathcal{P}_5^2/x_3 \approx \mathcal{G}_{17}^4$ $\mathcal{P}_5^2/x_4 \approx \mathcal{G}_{16}^2$ $\mathcal{P}_5^2/x_5 \approx \mathcal{G}_{16}^2$ $\mathcal{P}_5^2/x_6 \approx \mathcal{G}_{17}^3$ $\mathcal{P}_5^2/x_7 \approx \mathcal{G}_{14}^2$ $\mathcal{P}_5^2/x_8 \approx \mathcal{G}_{20}^3$ $\mathcal{P}_5^2/x_9 \approx \mathcal{G}_{16}^3$

Subpolytopes	$\mathcal{P}_5^2 \setminus x_1 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_5^2 \setminus x_2 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_5^2 \setminus x_3 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_5^2 \setminus x_4 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_5^2 \setminus x_5 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_5^2 \setminus x_6 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_5^2 \setminus x_7 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_5^2 \setminus x_8 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_5^2 \setminus x_9 \approx \mathcal{C}(8, 5)$
Polytope	\mathcal{P}_6^2
Facets	12367 12369 12379 12458 12459 12489 12568 12569 12678 12789 13456 13459 13467 13478 13489 13569 13789 14567 14578 15678 23678 23689 23789 24589 25689 34568 34589 34678 35689 45678
UVs	1 8
UEs	12 13 14 15 16 17 18 19 28 29 36 38 39 45 48 56 58 68 78 89
MFs	234 235 246 247 257 357 469 479 579 679
Vertex Figures	$\mathcal{P}_6^2/x_1 \approx \mathcal{G}_{20}^3$ $\mathcal{P}_6^2/x_2 \approx \mathcal{G}_{15}^2$ $\mathcal{P}_6^2/x_3 \approx \mathcal{G}_{17}^3$ $\mathcal{P}_6^2/x_4 \approx \mathcal{G}_{15}^2$ $\mathcal{P}_6^2/x_5 \approx \mathcal{G}_{16}^3$ $\mathcal{P}_6^2/x_6 \approx \mathcal{G}_{17}^3$ $\mathcal{P}_6^2/x_7 \approx \mathcal{G}_{14}^2$ $\mathcal{P}_6^2/x_8 \approx \mathcal{G}_{20}^3$ $\mathcal{P}_6^2/x_9 \approx \mathcal{G}_{16}^3$
Subpolytopes	$\mathcal{P}_6^2 \setminus x_1 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_6^2 \setminus x_2 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_6^2 \setminus x_3 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_6^2 \setminus x_4 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_6^2 \setminus x_5 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_6^2 \setminus x_6 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_6^2 \setminus x_7 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_6^2 \setminus x_8 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_6^2 \setminus x_9 \approx \mathcal{C}(8, 5)$
Polytope	\mathcal{P}_7^2
Facets	12356 12359 12367 12378 12389 12458 12459 12489 12568 12678 13478 13479 13489 13569 13679 14567 14569 14578 14679 15678 23568 23589 23678 24589 34789 35689 36789 45678 45689 46789
UVs	1 8
UEs	12 13 14 15 16 17 18 19 28 38 39 48 49 56 58 67 68 78 89
MFs	234 246 247 257 269 279 345 346 357 579
Vertex Figures	$\mathcal{P}_7^2/x_1 \approx \mathcal{G}_{20}^3$ $\mathcal{P}_7^2/x_2 \approx \mathcal{G}_{14}^2$ $\mathcal{P}_7^2/x_3 \approx \mathcal{G}_{16}^2$ $\mathcal{P}_7^2/x_4 \approx \mathcal{G}_{15}^1$ $\mathcal{P}_7^2/x_5 \approx \mathcal{G}_{16}^2$ $\mathcal{P}_7^2/x_6 \approx \mathcal{G}_{17}^6$ $\mathcal{P}_7^2/x_7 \approx \mathcal{G}_{15}^1$ $\mathcal{P}_7^2/x_8 \approx \mathcal{G}_{20}^3$ $\mathcal{P}_7^2/x_9 \approx \mathcal{G}_{17}^6$
Subpolytopes	$\mathcal{P}_7^2 \setminus x_1 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_7^2 \setminus x_2 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_7^2 \setminus x_3 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_7^2 \setminus x_4 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_7^2 \setminus x_5 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_7^2 \setminus x_6 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_7^2 \setminus x_7 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_7^2 \setminus x_8 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_7^2 \setminus x_9 \approx \mathcal{C}(8, 5)$
Polytope	\mathcal{P}_8^2
Facets	12348 12349 12356 12359 12367 12378 12489 12568 12589 12678 13467 13469 13478 13569 14578 14579 14589 14679 15678 15679 23489 23568 23589 23678 34678 34689 35689 45789 46789 56789
UVs	1 8

UEs	12 13 14 15 16 17 18 19 23 28 36 38 48 49 58 59 67 68 78 89
MFs	245 246 247 257 269 279 345 357 379 456
Vertex Figures	$\mathcal{P}_8^2/x_1 \approx \mathcal{G}_{20}^3$ $\mathcal{P}_8^2/x_2 \approx \mathcal{G}_{14}^2$ $\mathcal{P}_8^2/x_3 \approx \mathcal{G}_{17}^4$ $\mathcal{P}_8^2/x_4 \approx \mathcal{G}_{15}^1$ $\mathcal{P}_8^2/x_5 \approx \mathcal{G}_{15}^2$ $\mathcal{P}_8^2/x_6 \approx \mathcal{G}_{17}^4$ $\mathcal{P}_8^2/x_7 \approx \mathcal{G}_{15}^2$ $\mathcal{P}_8^2/x_8 \approx \mathcal{G}_{20}^3$ $\mathcal{P}_8^2/x_9 \approx \mathcal{G}_{17}^6$
Subpolytopes	$\mathcal{P}_8^2 \setminus x_1 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_8^2 \setminus x_2 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_8^2 \setminus x_3 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_8^2 \setminus x_4 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_8^2 \setminus x_5 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_8^2 \setminus x_6 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_8^2 \setminus x_7 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_8^2 \setminus x_8 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_8^2 \setminus x_9 \approx \mathcal{C}(8, 5)$
Polytope	\mathcal{P}_1^1
Facets	12345 12349 12356 12367 12379 12458 12489 12569 12589 12679 13456 13467 13478 13489 13789 14567 14578 15678 15689 16789 23458 23489 23569 23589 23679 34568 34678 35689 36789 45678
UVs	1
UEs	12 13 14 15 16 17 18 19 23 29 34 36 38 39 48 56 58 67 89
MFs	246 247 257 268 278 357 459 469 479 579
Vertex Figures	$\mathcal{P}_1^1/x_1 \approx \mathcal{G}_{20}^3$ $\mathcal{P}_1^1/x_2 \approx \mathcal{G}_{15}^2$ $\mathcal{P}_1^1/x_3 \approx \mathcal{G}_{19}^1$ $\mathcal{P}_1^1/x_4 \approx \mathcal{G}_{15}^2$ $\mathcal{P}_1^1/x_5 \approx \mathcal{G}_{16}^1$ $\mathcal{P}_1^1/x_6 \approx \mathcal{G}_{17}^4$ $\mathcal{P}_1^1/x_7 \approx \mathcal{G}_{14}^2$ $\mathcal{P}_1^1/x_8 \approx \mathcal{G}_{18}^3$ $\mathcal{P}_1^1/x_9 \approx \mathcal{G}_{16}^3$
Subpolytopes	$\mathcal{P}_1^1 \setminus x_1 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_1^1 \setminus x_2 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_1^1 \setminus x_3 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_1^1 \setminus x_4 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_1^1 \setminus x_5 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_1^1 \setminus x_6 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_1^1 \setminus x_7 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_1^1 \setminus x_8 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_1^1 \setminus x_9 \approx \mathcal{C}(8, 5)$
Polytope	\mathcal{P}_2^1
Facets	12348 12349 12356 12359 12367 12378 12458 12459 12568 12678 13467 13469 13478 13569 14589 14679 14789 15678 15679 15789 23458 23459 23568 23678 34589 34678 34689 35689 46789 56789
UVs	1
UEs	12 13 14 15 16 17 18 19 23 34 36 38 48 49 58 59 67 68 78
MFs	246 247 257 269 279 289 357 379 456 457
Vertex Figures	$\mathcal{P}_2^1/x_1 \approx \mathcal{G}_{20}^3$ $\mathcal{P}_2^1/x_2 \approx \mathcal{G}_{14}^2$ $\mathcal{P}_2^1/x_3 \approx \mathcal{G}_{18}^2$ $\mathcal{P}_2^1/x_4 \approx \mathcal{G}_{16}^4$ $\mathcal{P}_2^1/x_5 \approx \mathcal{G}_{16}^1$ $\mathcal{P}_2^1/x_6 \approx \mathcal{G}_{17}^4$ $\mathcal{P}_2^1/x_7 \approx \mathcal{G}_{14}^3$ $\mathcal{P}_2^1/x_8 \approx \mathcal{G}_{19}^2$ $\mathcal{P}_2^1/x_9 \approx \mathcal{G}_{16}^2$
Subpolytopes	$\mathcal{P}_2^1 \setminus x_1 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_2^1 \setminus x_2 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_2^1 \setminus x_3 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_2^1 \setminus x_4 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_2^1 \setminus x_5 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_2^1 \setminus x_6 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_2^1 \setminus x_7 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_2^1 \setminus x_8 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_2^1 \setminus x_9 \approx \mathcal{C}(8, 5)$
Polytope	\mathcal{P}_3^1

Facets	12345 12348 12356 12367 12379 12389 12459 12489 12569 12679 13456 13467 13478 13789 14567 14578 14589 15678 15689 16789 23458 23569 23589 23679 24589 34568 34678 35689 36789 45678
UVs	1
UEs	12 13 14 15 16 17 18 19 23 29 36 38 45 48 56 58 67 89
MFs	246 247 257 268 278 349 357 469 479 579
Vertex Figures	$\mathcal{P}_3^1/x_1 \approx \mathcal{G}_{20}^2$ $\mathcal{P}_3^1/x_2 \approx \mathcal{G}_{15}^2$ $\mathcal{P}_3^1/x_3 \approx \mathcal{G}_{18}^5$ $\mathcal{P}_3^1/x_4 \approx \mathcal{G}_{15}^2$ $\mathcal{P}_3^1/x_5 \approx \mathcal{G}_{17}^2$ $\mathcal{P}_3^1/x_6 \approx \mathcal{G}_{17}^4$ $\mathcal{P}_3^1/x_7 \approx \mathcal{G}_{14}^2$ $\mathcal{P}_3^1/x_8 \approx \mathcal{G}_{18}^2$ $\mathcal{P}_3^1/x_9 \approx \mathcal{G}_{16}^2$
Subpolytopes	$\mathcal{P}_3^1 \setminus x_1 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_3^1 \setminus x_2 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_3^1 \setminus x_3 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_3^1 \setminus x_4 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_3^1 \setminus x_5 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_3^1 \setminus x_6 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_3^1 \setminus x_7 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_3^1 \setminus x_8 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_3^1 \setminus x_9 \approx \mathcal{C}(8, 5)$
Polytope	\mathcal{P}_4^1
Facets	12348 12349 12389 12458 12459 12568 12569 12678 12679 12789 13456 13459 13467 13478 13569 13679 13789 14567 14578 15678 23458 23459 23589 25689 26789 34568 34678 35689 36789 45678
UVs	1
UEs	12 13 14 15 16 17 18 19 28 29 34 38 39 45 56 58 67 68 78
MFs	236 237 246 247 257 357 469 479 489 579
Vertex Figures	$\mathcal{P}_4^1/x_1 \approx \mathcal{G}_{20}^1$ $\mathcal{P}_4^1/x_2 \approx \mathcal{G}_{15}^2$ $\mathcal{P}_4^1/x_3 \approx \mathcal{G}_{17}^4$ $\mathcal{P}_4^1/x_4 \approx \mathcal{G}_{15}^2$ $\mathcal{P}_4^1/x_5 \approx \mathcal{G}_{17}^2$ $\mathcal{P}_4^1/x_6 \approx \mathcal{G}_{17}^6$ $\mathcal{P}_4^1/x_7 \approx \mathcal{G}_{14}^3$ $\mathcal{P}_4^1/x_8 \approx \mathcal{G}_{19}^1$ $\mathcal{P}_4^1/x_9 \approx \mathcal{G}_{16}^2$
Subpolytopes	$\mathcal{P}_4^1 \setminus x_1 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_4^1 \setminus x_2 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_4^1 \setminus x_3 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_4^1 \setminus x_4 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_4^1 \setminus x_5 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_4^1 \setminus x_6 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_4^1 \setminus x_7 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_4^1 \setminus x_8 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_4^1 \setminus x_9 \approx \mathcal{C}(8, 5)$
Polytope	\mathcal{P}_5^1
Facets	12348 12349 12356 12359 12367 12378 12458 12459 12568 12678 13489 13569 13679 13789 14567 14569 14578 14679 14789 15678 23458 23459 23568 23678 34589 35689 36789 45678 45689 46789
UVs	1
UEs	12 13 14 15 16 17 18 19 23 38 39 45 48 49 56 58 67 68 78
MFs	246 247 257 269 279 289 346 347 357 579
Vertex Figures	$\mathcal{P}_5^1/x_1 \approx \mathcal{G}_{20}^2$ $\mathcal{P}_5^1/x_2 \approx \mathcal{G}_{14}^2$ $\mathcal{P}_5^1/x_3 \approx \mathcal{G}_{17}^4$ $\mathcal{P}_5^1/x_4 \approx \mathcal{G}_{16}^4$ $\mathcal{P}_5^1/x_5 \approx \mathcal{G}_{17}^2$ $\mathcal{P}_5^1/x_6 \approx \mathcal{G}_{17}^6$ $\mathcal{P}_5^1/x_7 \approx \mathcal{G}_{14}^3$ $\mathcal{P}_5^1/x_8 \approx \mathcal{G}_{19}^1$ $\mathcal{P}_5^1/x_9 \approx \mathcal{G}_{16}^2$

Subpolytopes	$\mathcal{P}_5^1 \setminus x_1 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_5^1 \setminus x_2 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_5^1 \setminus x_3 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_5^1 \setminus x_4 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_5^1 \setminus x_5 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_5^1 \setminus x_6 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_5^1 \setminus x_7 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_5^1 \setminus x_8 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_5^1 \setminus x_9 \approx \mathcal{C}(8, 5)$
Polytope	\mathcal{P}_6^1
Facets	12345 12349 12356 12367 12379 12459 12568 12589 12679 12689 13456 13467 13478 13489 13789 14567 14578 14589 15678 16789 23459 23568 23589 23679 23689 34568 34589 34678 36789 45678
UVs	1
UEs	12 13 14 15 16 17 18 19 23 29 34 36 38 39 45 58 67 68 89
MFs	246 247 248 257 278 357 469 479 569 579
Vertex Figures	$\mathcal{P}_6^1/x_1 \approx \mathcal{G}_{20}^3$ $\mathcal{P}_6^1/x_2 \approx \mathcal{G}_{15}^1$ $\mathcal{P}_6^1/x_3 \approx \mathcal{G}_{19}^2$ $\mathcal{P}_6^1/x_4 \approx \mathcal{G}_{15}^2$ $\mathcal{P}_6^1/x_5 \approx \mathcal{G}_{16}^1$ $\mathcal{P}_6^1/x_6 \approx \mathcal{G}_{17}^3$ $\mathcal{P}_6^1/x_7 \approx \mathcal{G}_{14}^2$ $\mathcal{P}_6^1/x_8 \approx \mathcal{G}_{18}^1$ $\mathcal{P}_6^1/x_9 \approx \mathcal{G}_{16}^5$
Subpolytopes	$\mathcal{P}_6^1 \setminus x_1 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_6^1 \setminus x_2 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_6^1 \setminus x_3 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_6^1 \setminus x_4 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_6^1 \setminus x_5 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_6^1 \setminus x_6 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_6^1 \setminus x_7 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_6^1 \setminus x_8 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_6^1 \setminus x_9 \approx \mathcal{C}(8, 5)$
Polytope	\mathcal{P}_7^1
Facets	12345 12348 12359 12367 12369 12378 12458 12568 12569 12678 13459 13467 13469 13478 14578 14579 14679 15689 15789 16789 23458 23568 23569 23678 34589 34678 34689 35689 45789 46789
UVs	1
UEs	12 13 14 15 16 17 18 19 23 34 36 38 48 58 59 68 69 78
MFs	246 247 249 257 279 289 357 379 456 567
Vertex Figures	$\mathcal{P}_7^1/x_1 \approx \mathcal{G}_{20}^3$ $\mathcal{P}_7^1/x_2 \approx \mathcal{G}_{14}^1$ $\mathcal{P}_7^1/x_3 \approx \mathcal{G}_{18}^3$ $\mathcal{P}_7^1/x_4 \approx \mathcal{G}_{16}^2$ $\mathcal{P}_7^1/x_5 \approx \mathcal{G}_{16}^1$ $\mathcal{P}_7^1/x_6 \approx \mathcal{G}_{17}^3$ $\mathcal{P}_7^1/x_7 \approx \mathcal{G}_{14}^2$ $\mathcal{P}_7^1/x_8 \approx \mathcal{G}_{19}^3$ $\mathcal{P}_7^1/x_9 \approx \mathcal{G}_{16}^2$
Subpolytopes	$\mathcal{P}_7^1 \setminus x_1 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_7^1 \setminus x_2 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_7^1 \setminus x_3 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_7^1 \setminus x_4 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_7^1 \setminus x_5 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_7^1 \setminus x_6 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_7^1 \setminus x_7 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_7^1 \setminus x_8 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_7^1 \setminus x_9 \approx \mathcal{C}(8, 5)$
Polytope	\mathcal{P}_8^1
Facets	12345 12349 12356 12367 12379 12459 12569 12678 12689 12789 13456 13467 13478 13489 13789 14567 14578 14589 15678 15689 23459 23569 23678 23689 23789 34568 34589 34678 35689 45678
UVs	1

UEs	12 13 14 15 16 17 18 19 23 29 34 36 38 39 45 56 68 78 89
MFs	246 247 248 257 258 357 469 479 579 679
Vertex Figures	$\mathcal{P}_8^1/x_1 \approx \mathcal{G}_{20}^2$ $\mathcal{P}_8^1/x_2 \approx \mathcal{G}_{15}^2$ $\mathcal{P}_8^1/x_3 \approx \mathcal{G}_{19}^2$ $\mathcal{P}_8^1/x_4 \approx \mathcal{G}_{15}^2$ $\mathcal{P}_8^1/x_5 \approx \mathcal{G}_{16}^2$ $\mathcal{P}_8^1/x_6 \approx \mathcal{G}_{17}^3$ $\mathcal{P}_8^1/x_7 \approx \mathcal{G}_{14}^2$ $\mathcal{P}_8^1/x_8 \approx \mathcal{G}_{18}^3$ $\mathcal{P}_8^1/x_9 \approx \mathcal{G}_{16}^3$
Subpolytopes	$\mathcal{P}_8^1 \setminus x_1 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_8^1 \setminus x_2 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_8^1 \setminus x_3 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_8^1 \setminus x_4 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_8^1 \setminus x_5 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_8^1 \setminus x_6 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_8^1 \setminus x_7 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_8^1 \setminus x_8 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_8^1 \setminus x_9 \approx \mathcal{C}(8, 5)$
Polytope	\mathcal{P}_9^1
Facets	12345 12348 12356 12367 12379 12389 12458 12568 12678 12789 13456 13467 13479 13489 14567 14579 14589 15679 15689 16789 23458 23568 23678 23789 34568 34679 34689 36789 45679 45689
UVs	1
UEs	12 13 14 15 16 17 18 19 23 28 34 36 38 45 56 67 68 79 89
MFs	246 247 249 257 259 269 357 359 478 578
Vertex Figures	$\mathcal{P}_9^1/x_1 \approx \mathcal{G}_{20}^1$ $\mathcal{P}_9^1/x_2 \approx \mathcal{G}_{14}^3$ $\mathcal{P}_9^1/x_3 \approx \mathcal{G}_{18}^3$ $\mathcal{P}_9^1/x_4 \approx \mathcal{G}_{16}^2$ $\mathcal{P}_9^1/x_5 \approx \mathcal{G}_{15}^2$ $\mathcal{P}_9^1/x_6 \approx \mathcal{G}_{18}^1$ $\mathcal{P}_9^1/x_7 \approx \mathcal{G}_{15}^2$ $\mathcal{P}_9^1/x_8 \approx \mathcal{G}_{18}^3$ $\mathcal{P}_9^1/x_9 \approx \mathcal{G}_{16}^2$
Subpolytopes	$\mathcal{P}_9^1 \setminus x_1 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_9^1 \setminus x_2 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_9^1 \setminus x_3 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_9^1 \setminus x_4 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_9^1 \setminus x_5 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_9^1 \setminus x_6 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_9^1 \setminus x_7 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_9^1 \setminus x_8 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_9^1 \setminus x_9 \approx \mathcal{C}(8, 5)$
Polytope	\mathcal{P}_{10}^1
Facets	12345 12348 12356 12367 12378 12459 12489 12568 12589 12678 13459 13467 13469 13478 13569 14679 14789 15678 15679 15789 23459 23489 23568 23589 23678 34678 34689 35689 46789 56789
UVs	1
UEs	12 13 14 15 16 17 18 19 23 28 34 36 38 49 59 67 68 78 89
MFs	246 247 257 269 279 357 379 456 457 458
Vertex Figures	$\mathcal{P}_{10}^1/x_1 \approx \mathcal{G}_{20}^2$ $\mathcal{P}_{10}^1/x_2 \approx \mathcal{G}_{15}^2$ $\mathcal{P}_{10}^1/x_3 \approx \mathcal{G}_{18}^2$ $\mathcal{P}_{10}^1/x_4 \approx \mathcal{G}_{15}^2$ $\mathcal{P}_{10}^1/x_5 \approx \mathcal{G}_{15}^3$ $\mathcal{P}_{10}^1/x_6 \approx \mathcal{G}_{17}^4$ $\mathcal{P}_{10}^1/x_7 \approx \mathcal{G}_{14}^3$ $\mathcal{P}_{10}^1/x_8 \approx \mathcal{G}_{19}^1$ $\mathcal{P}_{10}^1/x_9 \approx \mathcal{G}_{17}^4$
Subpolytopes	$\mathcal{P}_{10}^1 \setminus x_1 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{10}^1 \setminus x_2 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{10}^1 \setminus x_3 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{10}^1 \setminus x_4 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{10}^1 \setminus x_5 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{10}^1 \setminus x_6 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{10}^1 \setminus x_7 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{10}^1 \setminus x_8 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{10}^1 \setminus x_9 \approx \mathcal{C}(8, 5)$
Polytope	\mathcal{P}_{11}^1

Facets	12356 12359 12369 12458 12459 12489 12568 12678 12679 12789 13456 13459 13467 13478 13489 13679 13789 14567 14578 15678 23569 24589 25689 26789 34568 34589 34678 35689 36789 45678
UVs	1
UEs	12 13 14 15 16 17 18 19 29 36 39 45 48 56 58 67 68 78 89
MFs	234 237 238 246 247 257 357 469 479 579
Vertex Figures	$\mathcal{P}_{11}^1/x_1 \approx \mathcal{G}_{20}^3$ $\mathcal{P}_{11}^1/x_2 \approx \mathcal{G}_{14}^1$ $\mathcal{P}_{11}^1/x_3 \approx \mathcal{G}_{16}^1$ $\mathcal{P}_{11}^1/x_4 \approx \mathcal{G}_{15}^2$ $\mathcal{P}_{11}^1/x_5 \approx \mathcal{G}_{17}^2$ $\mathcal{P}_{11}^1/x_6 \approx \mathcal{G}_{18}^3$ $\mathcal{P}_{11}^1/x_7 \approx \mathcal{G}_{14}^3$ $\mathcal{P}_{11}^1/x_8 \approx \mathcal{G}_{19}^1$ $\mathcal{P}_{11}^1/x_9 \approx \mathcal{G}_{17}^3$
Subpolytopes	$\mathcal{P}_{11}^1 \setminus x_1 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{11}^1 \setminus x_2 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{11}^1 \setminus x_3 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{11}^1 \setminus x_4 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{11}^1 \setminus x_5 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{11}^1 \setminus x_6 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{11}^1 \setminus x_7 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{11}^1 \setminus x_8 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{11}^1 \setminus x_9 \approx \mathcal{C}(8, 5)$
Polytope	\mathcal{P}_{12}^1
Facets	12345 12348 12356 12367 12378 12458 12569 12589 12678 12689 13459 13467 13469 13478 13569 14578 14579 14679 15789 16789 23458 23569 23589 23678 23689 34589 34678 34689 45789 46789
UVs	1
UEs	12 13 14 15 16 17 18 19 23 28 34 36 38 48 59 69 78 89
MFs	246 247 249 257 279 357 379 456 567 568
Vertex Figures	$\mathcal{P}_{12}^1/x_1 \approx \mathcal{G}_{20}^3$ $\mathcal{P}_{12}^1/x_2 \approx \mathcal{G}_{15}^1$ $\mathcal{P}_{12}^1/x_3 \approx \mathcal{G}_{18}^3$ $\mathcal{P}_{12}^1/x_4 \approx \mathcal{G}_{16}^2$ $\mathcal{P}_{12}^1/x_5 \approx \mathcal{G}_{15}^3$ $\mathcal{P}_{12}^1/x_6 \approx \mathcal{G}_{16}^1$ $\mathcal{P}_{12}^1/x_7 \approx \mathcal{G}_{14}^1$ $\mathcal{P}_{12}^1/x_8 \approx \mathcal{G}_{19}^1$ $\mathcal{P}_{12}^1/x_9 \approx \mathcal{G}_{17}^4$
Subpolytopes	$\mathcal{P}_{12}^1 \setminus x_1 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{12}^1 \setminus x_2 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{12}^1 \setminus x_3 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{12}^1 \setminus x_4 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{12}^1 \setminus x_5 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{12}^1 \setminus x_6 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{12}^1 \setminus x_7 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{12}^1 \setminus x_8 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{12}^1 \setminus x_9 \approx \mathcal{C}(8, 5)$
Polytope	\mathcal{P}_{13}^1
Facets	12356 12359 12367 12378 12389 12458 12459 12489 12568 12678 13456 13459 13469 13679 13789 14567 14578 14679 14789 15678 23568 23589 23678 24589 34569 35689 36789 45678 45689 46789
UVs	1
UEs	12 13 14 15 16 17 18 19 28 36 39 45 49 56 58 67 68 78 89
MFs	234 246 247 257 269 279 347 348 357 579
Vertex Figures	$\mathcal{P}_{13}^1/x_1 \approx \mathcal{G}_{20}^2$ $\mathcal{P}_{13}^1/x_2 \approx \mathcal{G}_{14}^2$ $\mathcal{P}_{13}^1/x_3 \approx \mathcal{G}_{16}^1$ $\mathcal{P}_{13}^1/x_4 \approx \mathcal{G}_{15}^1$ $\mathcal{P}_{13}^1/x_5 \approx \mathcal{G}_{17}^1$ $\mathcal{P}_{13}^1/x_6 \approx \mathcal{G}_{18}^3$ $\mathcal{P}_{13}^1/x_7 \approx \mathcal{G}_{14}^3$ $\mathcal{P}_{13}^1/x_8 \approx \mathcal{G}_{19}^1$ $\mathcal{P}_{13}^1/x_9 \approx \mathcal{G}_{17}^3$

Subpolytopes	$\mathcal{P}_{13}^1 \setminus x_1 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{13}^1 \setminus x_2 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{13}^1 \setminus x_3 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{13}^1 \setminus x_4 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{13}^1 \setminus x_5 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{13}^1 \setminus x_6 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{13}^1 \setminus x_7 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{13}^1 \setminus x_8 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{13}^1 \setminus x_9 \approx \mathcal{C}(8, 5)$
Polytope	\mathcal{P}_{14}^1
Facets	12348 12349 12356 12359 12367 12378 12489 12568 12589 12678 13456 13459 13467 13478 14569 14679 14789 15678 15679 15789 23489 23568 23589 23678 34569 34678 34689 35689 46789 56789
UVs	1
UEs	12 13 14 15 16 17 18 19 23 28 34 36 38 49 56 59 67 68 78 89
MFs	245 246 247 257 269 279 357 379 457 458
Vertex Figures	$\mathcal{P}_{14}^1/x_1 \approx \mathcal{G}_{20}^1$ $\mathcal{P}_{14}^1/x_2 \approx \mathcal{G}_{14}^3$ $\mathcal{P}_{14}^1/x_3 \approx \mathcal{G}_{18}^3$ $\mathcal{P}_{14}^1/x_4 \approx \mathcal{G}_{15}^1$ $\mathcal{P}_{14}^1/x_5 \approx \mathcal{G}_{15}^1$ $\mathcal{P}_{14}^1/x_6 \approx \mathcal{G}_{18}^3$ $\mathcal{P}_{14}^1/x_7 \approx \mathcal{G}_{14}^3$ $\mathcal{P}_{14}^1/x_8 \approx \mathcal{G}_{19}^1$ $\mathcal{P}_{14}^1/x_9 \approx \mathcal{G}_{17}^3$
Subpolytopes	$\mathcal{P}_{14}^1 \setminus x_1 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{14}^1 \setminus x_2 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{14}^1 \setminus x_3 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{14}^1 \setminus x_4 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{14}^1 \setminus x_5 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{14}^1 \setminus x_6 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{14}^1 \setminus x_7 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{14}^1 \setminus x_8 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{14}^1 \setminus x_9 \approx \mathcal{C}(8, 5)$
Polytope	\mathcal{P}_{15}^1
Facets	12345 12348 12356 12367 12379 12389 12458 12568 12679 12689 13456 13467 13478 13789 14567 14579 14589 14789 15679 15689 23458 23568 23679 23689 34568 34679 34689 34789 45679 45689
UVs	1
UEs	12 13 14 15 16 17 18 19 23 34 36 38 45 48 56 69 79 89
MFs	246 247 249 257 259 278 357 359 578 678
Vertex Figures	$\mathcal{P}_{15}^1/x_1 \approx \mathcal{G}_{20}^3$ $\mathcal{P}_{15}^1/x_2 \approx \mathcal{G}_{14}^2$ $\mathcal{P}_{15}^1/x_3 \approx \mathcal{G}_{18}^2$ $\mathcal{P}_{15}^1/x_4 \approx \mathcal{G}_{17}^1$ $\mathcal{P}_{15}^1/x_5 \approx \mathcal{G}_{15}^2$ $\mathcal{P}_{15}^1/x_6 \approx \mathcal{G}_{18}^3$ $\mathcal{P}_{15}^1/x_7 \approx \mathcal{G}_{14}^1$ $\mathcal{P}_{15}^1/x_8 \approx \mathcal{G}_{17}^1$ $\mathcal{P}_{15}^1/x_9 \approx \mathcal{G}_{17}^3$
Subpolytopes	$\mathcal{P}_{15}^1 \setminus x_1 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{15}^1 \setminus x_2 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{15}^1 \setminus x_3 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{15}^1 \setminus x_4 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{15}^1 \setminus x_5 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{15}^1 \setminus x_6 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{15}^1 \setminus x_7 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{15}^1 \setminus x_8 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{15}^1 \setminus x_9 \approx \mathcal{C}(8, 5)$
Polytope	\mathcal{P}_{16}^1
Facets	12345 12348 12356 12367 12379 12389 12458 12568 12679 12689 13456 13467 13479 13489 14567 14578 14789 15679 15689 15789 23458 23568 23679 23689 34568 34679 34689 45679 45689 45789
UVs	1

UEs	12 13 14 15 16 17 18 19 23 34 36 45 48 56 58 69 79 89
MFs	246 247 249 257 259 278 357 359 378 678
Vertex Figures	$\mathcal{P}_{16}^1/x_1 \approx \mathcal{G}_{20}^3$ $\mathcal{P}_{16}^1/x_2 \approx \mathcal{G}_{14}^2$ $\mathcal{P}_{16}^1/x_3 \approx \mathcal{G}_{17}^4$ $\mathcal{P}_{16}^1/x_4 \approx \mathcal{G}_{17}^1$ $\mathcal{P}_{16}^1/x_5 \approx \mathcal{G}_{16}^4$ $\mathcal{P}_{16}^1/x_6 \approx \mathcal{G}_{18}^5$ $\mathcal{P}_{16}^1/x_7 \approx \mathcal{G}_{14}^2$ $\mathcal{P}_{16}^1/x_8 \approx \mathcal{G}_{17}^1$ $\mathcal{P}_{16}^1/x_9 \approx \mathcal{G}_{17}^4$
Subpolytopes	$\mathcal{P}_{16}^1 \setminus x_1 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{16}^1 \setminus x_2 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{16}^1 \setminus x_3 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{16}^1 \setminus x_4 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{16}^1 \setminus x_5 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{16}^1 \setminus x_6 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{16}^1 \setminus x_7 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{16}^1 \setminus x_8 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{16}^1 \setminus x_9 \approx \mathcal{C}(8, 5)$
Polytope	\mathcal{P}_{17}^1
Facets	12345 12348 12356 12367 12378 12459 12489 12568 12589 12678 13459 13467 13469 13478 13569 14679 14789 15678 15679 15789 23458 23568 23678 24589 34568 34569 34678 45678 45679 45789
UVs	1
UEs	12 13 14 15 16 17 18 19 28 34 36 45 48 49 56 58 59 67 78
MFs	239 246 247 257 269 279 357 379 389 689
Vertex Figures	$\mathcal{P}_{17}^1/x_1 \approx \mathcal{G}_{20}^3$ $\mathcal{P}_{17}^1/x_2 \approx \mathcal{G}_{14}^2$ $\mathcal{P}_{17}^1/x_3 \approx \mathcal{G}_{16}^1$ $\mathcal{P}_{17}^1/x_4 \approx \mathcal{G}_{18}^3$ $\mathcal{P}_{17}^1/x_5 \approx \mathcal{G}_{18}^1$ $\mathcal{P}_{17}^1/x_6 \approx \mathcal{G}_{17}^5$ $\mathcal{P}_{17}^1/x_7 \approx \mathcal{G}_{15}^2$ $\mathcal{P}_{17}^1/x_8 \approx \mathcal{G}_{18}^1$ $\mathcal{P}_{17}^1/x_9 \approx \mathcal{G}_{14}^3$
Subpolytopes	$\mathcal{P}_{17}^1 \setminus x_1 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{17}^1 \setminus x_2 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{17}^1 \setminus x_3 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{17}^1 \setminus x_4 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{17}^1 \setminus x_5 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{17}^1 \setminus x_6 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{17}^1 \setminus x_7 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{17}^1 \setminus x_8 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{17}^1 \setminus x_9 \approx \mathcal{C}(8, 5)$
Polytope	\mathcal{P}_{18}^1
Facets	12356 12359 12369 12458 12459 12489 12568 12678 12679 12789 13456 13459 13467 13478 13489 13679 13789 14567 14578 15678 23458 23459 23489 23568 23678 23679 23789 34568 34678 45678
UVs	1
UEs	12 13 14 15 16 17 18 19 23 28 29 34 36 38 39 45 48 67 78
MFs	246 247 257 357 469 479 569 579 589 689
Vertex Figures	$\mathcal{P}_{18}^1/x_1 \approx \mathcal{G}_{20}^3$ $\mathcal{P}_{18}^1/x_2 \approx \mathcal{G}_{17}^3$ $\mathcal{P}_{18}^1/x_3 \approx \mathcal{G}_{19}^2$ $\mathcal{P}_{18}^1/x_4 \approx \mathcal{G}_{16}^4$ $\mathcal{P}_{18}^1/x_5 \approx \mathcal{G}_{15}^3$ $\mathcal{P}_{18}^1/x_6 \approx \mathcal{G}_{16}^1$ $\mathcal{P}_{18}^1/x_7 \approx \mathcal{G}_{15}^2$ $\mathcal{P}_{18}^1/x_8 \approx \mathcal{G}_{18}^2$ $\mathcal{P}_{18}^1/x_9 \approx \mathcal{G}_{14}^3$
Subpolytopes	$\mathcal{P}_{18}^1 \setminus x_1 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{18}^1 \setminus x_2 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{18}^1 \setminus x_3 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{18}^1 \setminus x_4 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{18}^1 \setminus x_5 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{18}^1 \setminus x_6 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{18}^1 \setminus x_7 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{18}^1 \setminus x_8 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{18}^1 \setminus x_9 \approx \mathcal{C}(8, 5)$
Polytope	\mathcal{P}_{19}^1

Facets	12345 12348 12356 12367 12378 12458 12569 12589 12678 12689 13459 13467 13469 13478 13569 14578 14579 14679 15789 16789 23458 23568 23678 25689 34568 34569 34678 45678 45679 56789
UVs	1
UEs	12 13 14 15 16 17 18 19 28 34 36 45 56 58 59 67 68 69 78
MFs	239 246 247 249 257 279 357 379 389 489
Vertex Figures	$\mathcal{P}_{19}^1/x_1 \approx \mathcal{G}_{20}^3$ $\mathcal{P}_{19}^1/x_2 \approx \mathcal{G}_{14}^1$ $\mathcal{P}_{19}^1/x_3 \approx \mathcal{G}_{16}^1$ $\mathcal{P}_{19}^1/x_4 \approx \mathcal{G}_{16}^1$ $\mathcal{P}_{19}^1/x_5 \approx \mathcal{G}_{18}^1$ $\mathcal{P}_{19}^1/x_6 \approx \mathcal{G}_{19}^2$ $\mathcal{P}_{19}^1/x_7 \approx \mathcal{G}_{15}^2$ $\mathcal{P}_{19}^1/x_8 \approx \mathcal{G}_{18}^3$ $\mathcal{P}_{19}^1/x_9 \approx \mathcal{G}_{14}^3$
Subpolytopes	$\mathcal{P}_{19}^1 \setminus x_1 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{19}^1 \setminus x_2 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{19}^1 \setminus x_3 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{19}^1 \setminus x_4 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{19}^1 \setminus x_5 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{19}^1 \setminus x_6 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{19}^1 \setminus x_7 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{19}^1 \setminus x_8 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{19}^1 \setminus x_9 \approx \mathcal{C}(8, 5)$
Polytope	\mathcal{P}_{20}^1
Facets	12356 12359 12367 12378 12389 12458 12459 12489 12568 12678 13456 13459 13469 13679 13789 14567 14578 14679 14789 15678 23458 23459 23489 23568 23678 34568 34678 34679 34789 45678
UVs	1
UEs	12 13 14 15 16 17 18 19 23 28 34 36 38 39 45 48 49 67 78
MFs	246 247 257 269 279 357 569 579 589 689
Vertex Figures	$\mathcal{P}_{20}^1/x_1 \approx \mathcal{G}_{20}^2$ $\mathcal{P}_{20}^1/x_2 \approx \mathcal{G}_{15}^2$ $\mathcal{P}_{20}^1/x_3 \approx \mathcal{G}_{19}^2$ $\mathcal{P}_{20}^1/x_4 \approx \mathcal{G}_{18}^3$ $\mathcal{P}_{20}^1/x_5 \approx \mathcal{G}_{15}^3$ $\mathcal{P}_{20}^1/x_6 \approx \mathcal{G}_{16}^1$ $\mathcal{P}_{20}^1/x_7 \approx \mathcal{G}_{15}^1$ $\mathcal{P}_{20}^1/x_8 \approx \mathcal{G}_{18}^3$ $\mathcal{P}_{20}^1/x_9 \approx \mathcal{G}_{14}^3$
Subpolytopes	$\mathcal{P}_{20}^1 \setminus x_1 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{20}^1 \setminus x_2 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{20}^1 \setminus x_3 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{20}^1 \setminus x_4 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{20}^1 \setminus x_5 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{20}^1 \setminus x_6 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{20}^1 \setminus x_7 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{20}^1 \setminus x_8 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{20}^1 \setminus x_9 \approx \mathcal{C}(8, 5)$
Polytope	\mathcal{P}_{21}^1
Facets	12348 12349 12356 12359 12367 12378 12489 12568 12589 12678 13467 13469 13478 13569 14578 14579 14589 14679 15678 15679 23458 23459 23568 23678 24589 34568 34569 34678 45678 45679
UVs	1
UEs	12 13 14 15 16 17 18 19 23 28 34 36 45 48 49 56 58 59 67
MFs	246 247 257 269 279 357 379 389 689 789
Vertex Figures	$\mathcal{P}_{21}^1/x_1 \approx \mathcal{G}_{20}^3$ $\mathcal{P}_{21}^1/x_2 \approx \mathcal{G}_{15}^2$ $\mathcal{P}_{21}^1/x_3 \approx \mathcal{G}_{17}^5$ $\mathcal{P}_{21}^1/x_4 \approx \mathcal{G}_{18}^3$ $\mathcal{P}_{21}^1/x_5 \approx \mathcal{G}_{18}^3$ $\mathcal{P}_{21}^1/x_6 \approx \mathcal{G}_{17}^5$ $\mathcal{P}_{21}^1/x_7 \approx \mathcal{G}_{14}^2$ $\mathcal{P}_{21}^1/x_8 \approx \mathcal{G}_{17}^1$ $\mathcal{P}_{21}^1/x_9 \approx \mathcal{G}_{14}^3$

Subpolytopes	$\mathcal{P}_{21}^1 \setminus x_1 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{21}^1 \setminus x_2 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{21}^1 \setminus x_3 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{21}^1 \setminus x_4 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{21}^1 \setminus x_5 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{21}^1 \setminus x_6 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{21}^1 \setminus x_7 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{21}^1 \setminus x_8 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{21}^1 \setminus x_9 \approx \mathcal{C}(8, 5)$
Polytope	\mathcal{P}_{22}^1
Facets	12345 12348 12359 12367 12369 12378 12458 12568 12569 12678 13459 13489 13679 13789 14567 14569 14578 14679 14789 15678 23458 23568 23569 23678 34568 34569 34678 34679 34789 45678
UVs	1
UEs	12 13 14 15 16 17 18 19 23 34 36 38 39 45 48 56 67 78
MFs	246 247 249 257 279 289 357 579 589 689
Vertex Figures	$\mathcal{P}_{22}^1/x_1 \approx \mathcal{G}_{20}^3$ $\mathcal{P}_{22}^1/x_2 \approx \mathcal{G}_{14}^1$ $\mathcal{P}_{22}^1/x_3 \approx \mathcal{G}_{19}^2$ $\mathcal{P}_{22}^1/x_4 \approx \mathcal{G}_{17}^1$ $\mathcal{P}_{22}^1/x_5 \approx \mathcal{G}_{16}^1$ $\mathcal{P}_{22}^1/x_6 \approx \mathcal{G}_{18}^6$ $\mathcal{P}_{22}^1/x_7 \approx \mathcal{G}_{15}^1$ $\mathcal{P}_{22}^1/x_8 \approx \mathcal{G}_{17}^1$ $\mathcal{P}_{22}^1/x_9 \approx \mathcal{G}_{14}^2$
Subpolytopes	$\mathcal{P}_{22}^1 \setminus x_1 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{22}^1 \setminus x_2 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{22}^1 \setminus x_3 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{22}^1 \setminus x_4 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{22}^1 \setminus x_5 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{22}^1 \setminus x_6 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{22}^1 \setminus x_7 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{22}^1 \setminus x_8 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{22}^1 \setminus x_9 \approx \mathcal{C}(8, 5)$
Polytope	\mathcal{P}_{23}^1
Facets	12345 12348 12359 12378 12379 12458 12568 12569 12689 12789 13456 13469 13478 13479 13569 14567 14578 14679 15678 16789 23458 23568 23569 23678 23679 26789 34568 34678 34679 45678
UVs	1
UEs	12 13 14 15 16 17 18 19 23 28 34 36 56 67 68 69 78
MFs	246 247 249 257 357 389 459 489 579 589
Vertex Figures	$\mathcal{P}_{23}^1/x_1 \approx \mathcal{G}_{20}^3$ $\mathcal{P}_{23}^1/x_2 \approx \mathcal{G}_{16}^1$ $\mathcal{P}_{23}^1/x_3 \approx \mathcal{G}_{18}^4$ $\mathcal{P}_{23}^1/x_4 \approx \mathcal{G}_{15}^3$ $\mathcal{P}_{23}^1/x_5 \approx \mathcal{G}_{15}^3$ $\mathcal{P}_{23}^1/x_6 \approx \mathcal{G}_{19}^2$ $\mathcal{P}_{23}^1/x_7 \approx \mathcal{G}_{16}^2$ $\mathcal{P}_{23}^1/x_8 \approx \mathcal{G}_{17}^2$ $\mathcal{P}_{23}^1/x_9 \approx \mathcal{G}_{14}^1$
Subpolytopes	$\mathcal{P}_{23}^1 \setminus x_1 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{23}^1 \setminus x_2 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{23}^1 \setminus x_3 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{23}^1 \setminus x_4 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{23}^1 \setminus x_5 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{23}^1 \setminus x_6 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{23}^1 \setminus x_7 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{23}^1 \setminus x_8 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{23}^1 \setminus x_9 \approx \mathcal{C}(8, 5)$
Polytope	\mathcal{P}_{24}^1
Facets	12348 12349 12367 12369 12378 12489 12568 12569 12589 12678 13456 13459 13467 13478 13569 14567 14579 14789 15678 15789 23458 23459 23568 23569 23678 24589 34568 34678 45678 45789
UVs	1

UEs	12 13 14 15 16 17 18 19 23 28 34 36 45 48 56 58 59 78
MFs	246 247 257 279 357 379 389 469 679 689
Vertex Figures	$\mathcal{P}_{24}^1/x_1 \approx \mathcal{G}_{20}^3$ $\mathcal{P}_{24}^1/x_2 \approx \mathcal{G}_{16}^1$ $\mathcal{P}_{24}^1/x_3 \approx \mathcal{G}_{17}^5$ $\mathcal{P}_{24}^1/x_4 \approx \mathcal{G}_{17}^5$ $\mathcal{P}_{24}^1/x_5 \approx \mathcal{G}_{18}^1$ $\mathcal{P}_{24}^1/x_6 \approx \mathcal{G}_{16}^1$ $\mathcal{P}_{24}^1/x_7 \approx \mathcal{G}_{14}^2$ $\mathcal{P}_{24}^1/x_8 \approx \mathcal{G}_{18}^1$ $\mathcal{P}_{24}^1/x_9 \approx \mathcal{G}_{14}^2$
Subpolytopes	$\mathcal{P}_{24}^1 \setminus x_1 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{24}^1 \setminus x_2 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{24}^1 \setminus x_3 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{24}^1 \setminus x_4 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{24}^1 \setminus x_5 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{24}^1 \setminus x_6 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{24}^1 \setminus x_7 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{24}^1 \setminus x_8 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{24}^1 \setminus x_9 \approx \mathcal{C}(8, 5)$
Polytope	\mathcal{P}_{25}^1
Facets	12367 12369 12379 12458 12459 12489 12568 12569 12678 12789 13456 13459 13467 13478 13489 13569 13789 14567 14578 15678 23568 23569 23589 23678 23789 24589 34568 34589 34678 45678
UVs	1
UEs	12 13 14 15 16 17 18 19 28 29 36 38 39 45 48 56 58 78
MFs	234 246 247 257 357 469 479 579 679 689
Vertex Figures	$\mathcal{P}_{25}^1/x_1 \approx \mathcal{G}_{20}^3$ $\mathcal{P}_{25}^1/x_2 \approx \mathcal{G}_{16}^1$ $\mathcal{P}_{25}^1/x_3 \approx \mathcal{G}_{18}^6$ $\mathcal{P}_{25}^1/x_4 \approx \mathcal{G}_{15}^2$ $\mathcal{P}_{25}^1/x_5 \approx \mathcal{G}_{17}^2$ $\mathcal{P}_{25}^1/x_6 \approx \mathcal{G}_{16}^1$ $\mathcal{P}_{25}^1/x_7 \approx \mathcal{G}_{14}^2$ $\mathcal{P}_{25}^1/x_8 \approx \mathcal{G}_{19}^3$ $\mathcal{P}_{25}^1/x_9 \approx \mathcal{G}_{15}^1$
Subpolytopes	$\mathcal{P}_{25}^1 \setminus x_1 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{25}^1 \setminus x_2 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{25}^1 \setminus x_3 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{25}^1 \setminus x_4 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{25}^1 \setminus x_5 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{25}^1 \setminus x_6 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{25}^1 \setminus x_7 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{25}^1 \setminus x_8 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{25}^1 \setminus x_9 \approx \mathcal{C}(8, 5)$
Polytope	\mathcal{P}_{26}^1
Facets	12345 12348 12359 12367 12369 12378 12458 12589 12678 12689 13456 13467 13478 13569 14569 14578 14579 14679 15789 16789 23458 23568 23569 23678 25689 34568 34678 45689 45789 46789
UVs	1
UEs	12 13 14 15 16 17 18 19 23 28 36 45 48 58 59 68 69 78
MFs	246 247 249 257 279 349 357 379 389 567
Vertex Figures	$\mathcal{P}_{26}^1/x_1 \approx \mathcal{G}_{20}^2$ $\mathcal{P}_{26}^1/x_2 \approx \mathcal{G}_{15}^1$ $\mathcal{P}_{26}^1/x_3 \approx \mathcal{G}_{16}^1$ $\mathcal{P}_{26}^1/x_4 \approx \mathcal{G}_{16}^2$ $\mathcal{P}_{26}^1/x_5 \approx \mathcal{G}_{17}^2$ $\mathcal{P}_{26}^1/x_6 \approx \mathcal{G}_{18}^4$ $\mathcal{P}_{26}^1/x_7 \approx \mathcal{G}_{14}^2$ $\mathcal{P}_{26}^1/x_8 \approx \mathcal{G}_{19}^2$ $\mathcal{P}_{26}^1/x_9 \approx \mathcal{G}_{15}^2$
Subpolytopes	$\mathcal{P}_{26}^1 \setminus x_1 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{26}^1 \setminus x_2 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{26}^1 \setminus x_3 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{26}^1 \setminus x_4 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{26}^1 \setminus x_5 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{26}^1 \setminus x_6 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{26}^1 \setminus x_7 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{26}^1 \setminus x_8 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{26}^1 \setminus x_9 \approx \mathcal{C}(8, 5)$
Polytope	\mathcal{P}_{27}^1

Facets	12356 12359 12369 12458 12459 12489 12568 12678 12679 12789 13456 13459 13467 13478 13489 13679 13789 14567 14578 15678 23568 23589 23678 23679 23789 24589 34568 34589 34678 45678
UVs	1
UEs	12 13 14 15 16 17 18 19 28 29 36 38 39 45 48 58 67 78
MFs	234 246 247 257 357 469 479 569 579 689
Vertex Figures	$\mathcal{P}_{27}^1/x_1 \approx \mathcal{G}_{20}^3$ $\mathcal{P}_{27}^1/x_2 \approx \mathcal{G}_{16}^1$ $\mathcal{P}_{27}^1/x_3 \approx \mathcal{G}_{18}^4$ $\mathcal{P}_{27}^1/x_4 \approx \mathcal{G}_{15}^2$ $\mathcal{P}_{27}^1/x_5 \approx \mathcal{G}_{16}^2$ $\mathcal{P}_{27}^1/x_6 \approx \mathcal{G}_{16}^1$ $\mathcal{P}_{27}^1/x_7 \approx \mathcal{G}_{15}^2$ $\mathcal{P}_{27}^1/x_8 \approx \mathcal{G}_{19}^3$ $\mathcal{P}_{27}^1/x_9 \approx \mathcal{G}_{15}^2$
Subpolytopes	$\mathcal{P}_{27}^1 \setminus x_1 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{27}^1 \setminus x_2 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{27}^1 \setminus x_3 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{27}^1 \setminus x_4 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{27}^1 \setminus x_5 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{27}^1 \setminus x_6 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{27}^1 \setminus x_7 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{27}^1 \setminus x_8 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{27}^1 \setminus x_9 \approx \mathcal{C}(8, 5)$
Polytope	\mathcal{P}_{28}^1
Facets	12345 12348 12356 12367 12379 12389 12458 12568 12679 12689 13456 13467 13479 13489 14567 14578 14789 15679 15689 15789 23458 23568 23679 23689 34568 34678 34789 36789 45678 56789
UVs	1
UEs	12 13 14 15 16 17 18 19 23 34 36 38 48 56 58 67 68 79 89
MFs	246 247 249 257 259 278 357 359 459 469
Vertex Figures	$\mathcal{P}_{28}^1/x_1 \approx \mathcal{G}_{20}^3$ $\mathcal{P}_{28}^1/x_2 \approx \mathcal{G}_{14}^2$ $\mathcal{P}_{28}^1/x_3 \approx \mathcal{G}_{18}^3$ $\mathcal{P}_{28}^1/x_4 \approx \mathcal{G}_{15}^1$ $\mathcal{P}_{28}^1/x_5 \approx \mathcal{G}_{15}^2$ $\mathcal{P}_{28}^1/x_6 \approx \mathcal{G}_{18}^1$ $\mathcal{P}_{28}^1/x_7 \approx \mathcal{G}_{16}^1$ $\mathcal{P}_{28}^1/x_8 \approx \mathcal{G}_{19}^4$ $\mathcal{P}_{28}^1/x_9 \approx \mathcal{G}_{15}^1$
Subpolytopes	$\mathcal{P}_{28}^1 \setminus x_1 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{28}^1 \setminus x_2 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{28}^1 \setminus x_3 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{28}^1 \setminus x_4 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{28}^1 \setminus x_5 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{28}^1 \setminus x_6 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{28}^1 \setminus x_7 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{28}^1 \setminus x_8 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{28}^1 \setminus x_9 \approx \mathcal{C}(8, 5)$
Polytope	\mathcal{P}_{29}^1
Facets	12345 12349 12356 12367 12378 12389 12459 12569 12678 12689 13456 13467 13478 13489 14567 14579 14789 15678 15689 15789 23459 23568 23589 23678 25689 34567 34578 34589 35678 45789
UVs	1
UEs	12 13 14 15 16 17 18 19 23 34 35 38 45 56 58 59 78 89
MFs	246 247 248 257 279 369 379 468 469 679
Vertex Figures	$\mathcal{P}_{29}^1/x_1 \approx \mathcal{G}_{20}^3$ $\mathcal{P}_{29}^1/x_2 \approx \mathcal{G}_{15}^3$ $\mathcal{P}_{29}^1/x_3 \approx \mathcal{G}_{18}^3$ $\mathcal{P}_{29}^1/x_4 \approx \mathcal{G}_{15}^1$ $\mathcal{P}_{29}^1/x_5 \approx \mathcal{G}_{19}^4$ $\mathcal{P}_{29}^1/x_6 \approx \mathcal{G}_{15}^3$ $\mathcal{P}_{29}^1/x_7 \approx \mathcal{G}_{15}^3$ $\mathcal{P}_{29}^1/x_8 \approx \mathcal{G}_{18}^3$ $\mathcal{P}_{29}^1/x_9 \approx \mathcal{G}_{15}^1$

Subpolytopes	$\mathcal{P}_{29}^1 \setminus x_1 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{29}^1 \setminus x_2 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{29}^1 \setminus x_3 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{29}^1 \setminus x_4 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{29}^1 \setminus x_5 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{29}^1 \setminus x_6 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{29}^1 \setminus x_7 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{29}^1 \setminus x_8 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{29}^1 \setminus x_9 \approx \mathcal{C}(8, 5)$
Polytope	\mathcal{P}_1^0
Facets	12458 12459 12489 12568 12569 12678 12679 12789 13456 13459 13467 13478 13489 13569 13679 13789 14567 14578 15678 23458 23459 23489 23568 23569 23678 23679 23789 34568 34678 45678
UEs	14 15 16 17 18 19 28 29 34 36 38 39 45 48 56 67 78
MFs	123 246 247 257 357 469 479 579 589 689
Vertex Figures	$\mathcal{P}_1^0/x_1 \approx \mathcal{G}_{19}^1$ $\mathcal{P}_1^0/x_2 \approx \mathcal{G}_{16}^7$ $\mathcal{P}_1^0/x_3 \approx \mathcal{G}_{18}^5$ $\mathcal{P}_1^0/x_4 \approx \mathcal{G}_{16}^4$ $\mathcal{P}_1^0/x_5 \approx \mathcal{G}_{16}^2$ $\mathcal{P}_1^0/x_6 \approx \mathcal{G}_{17}^4$ $\mathcal{P}_1^0/x_7 \approx \mathcal{G}_{15}^2$ $\mathcal{P}_1^0/x_8 \approx \mathcal{G}_{18}^2$ $\mathcal{P}_1^0/x_9 \approx \mathcal{G}_{15}^5$
Subpolytopes	$\mathcal{P}_1^0 \setminus x_1 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_1^0 \setminus x_2 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_1^0 \setminus x_3 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_1^0 \setminus x_4 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_1^0 \setminus x_5 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_1^0 \setminus x_6 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_1^0 \setminus x_7 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_1^0 \setminus x_8 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_1^0 \setminus x_9 \approx \mathcal{C}(8, 5)$
Polytope	\mathcal{P}_2^0
Facets	12356 12359 12367 12378 12389 12458 12459 12489 12568 12678 13569 13679 13789 14567 14569 14578 14679 14789 15678 23458 23459 23489 23568 23678 34568 34569 34678 34679 34789 45678
UEs	12 15 16 17 18 19 23 28 36 38 39 45 48 49 56 67 78
MFs	134 246 247 257 269 279 357 579 589 689
Vertex Figures	$\mathcal{P}_2^0/x_1 \approx \mathcal{G}_{19}^1$ $\mathcal{P}_2^0/x_2 \approx \mathcal{G}_{15}^2$ $\mathcal{P}_2^0/x_3 \approx \mathcal{G}_{18}^5$ $\mathcal{P}_2^0/x_4 \approx \mathcal{G}_{17}^7$ $\mathcal{P}_2^0/x_5 \approx \mathcal{G}_{16}^1$ $\mathcal{P}_2^0/x_6 \approx \mathcal{G}_{17}^3$ $\mathcal{P}_2^0/x_7 \approx \mathcal{G}_{15}^1$ $\mathcal{P}_2^0/x_8 \approx \mathcal{G}_{18}^3$ $\mathcal{P}_2^0/x_9 \approx \mathcal{G}_{15}^5$
Subpolytopes	$\mathcal{P}_2^0 \setminus x_1 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_2^0 \setminus x_2 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_2^0 \setminus x_3 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_2^0 \setminus x_4 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_2^0 \setminus x_5 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_2^0 \setminus x_6 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_2^0 \setminus x_7 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_2^0 \setminus x_8 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_2^0 \setminus x_9 \approx \mathcal{C}(8, 5)$
Polytope	\mathcal{P}_3^0
Facets	12348 12349 12356 12359 12367 12378 12489 12568 12589 12678 13467 13469 13478 13569 14679 14789 15678 15679 15789 23458 23459 23568 23678 24589 34568 34569 34678 45678 45679 45789
UEs	12 13 16 17 18 19 23 28 34 36 48 49 56 58 59 67 78
MFs	145 246 247 257 269 279 357 379 389 689

Vertex Figures	$\mathcal{P}_3^0/x_1 \approx \mathcal{G}_{19}^1$ $\mathcal{P}_3^0/x_2 \approx \mathcal{G}_{15}^2$ $\mathcal{P}_3^0/x_3 \approx \mathcal{G}_{17}^5$ $\mathcal{P}_3^0/x_4 \approx \mathcal{G}_{17}^7$ $\mathcal{P}_3^0/x_5 \approx \mathcal{G}_{17}^7$ $\mathcal{P}_3^0/x_6 \approx \mathcal{G}_{17}^5$ $\mathcal{P}_3^0/x_7 \approx \mathcal{G}_{15}^2$ $\mathcal{P}_3^0/x_8 \approx \mathcal{G}_{18}^1$ $\mathcal{P}_3^0/x_9 \approx \mathcal{G}_{15}^5$
Subpolytopes	$\mathcal{P}_3^0 \setminus x_1 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_3^0 \setminus x_2 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_3^0 \setminus x_3 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_3^0 \setminus x_4 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_3^0 \setminus x_5 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_3^0 \setminus x_6 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_3^0 \setminus x_7 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_3^0 \setminus x_8 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_3^0 \setminus x_9 \approx \mathcal{C}(8, 5)$
Polytope	\mathcal{P}_4^0
Facets	12345 12349 12356 12367 12379 12459 12569 12679 13456 13467 13478 13489 13789 14567 14578 14589 15678 15689 16789 23458 23489 23568 23678 23789 24589 25689 26789 34568 34678 45678
UEs	13 14 15 16 17 19 23 29 34 38 45 48 56 58 67 68 78 89
MFs	128 246 247 257 357 359 369 469 479 579
Vertex Figures	$\mathcal{P}_4^0/x_1 \approx \mathcal{G}_{19}^1$ $\mathcal{P}_4^0/x_2 \approx \mathcal{G}_{16}^7$ $\mathcal{P}_4^0/x_3 \approx \mathcal{G}_{17}^4$ $\mathcal{P}_4^0/x_4 \approx \mathcal{G}_{16}^5$ $\mathcal{P}_4^0/x_5 \approx \mathcal{G}_{16}^3$ $\mathcal{P}_4^0/x_6 \approx \mathcal{G}_{17}^6$ $\mathcal{P}_4^0/x_7 \approx \mathcal{G}_{15}^2$ $\mathcal{P}_4^0/x_8 \approx \mathcal{G}_{19}^1$ $\mathcal{P}_4^0/x_9 \approx \mathcal{G}_{15}^5$
Subpolytopes	$\mathcal{P}_4^0 \setminus x_1 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_4^0 \setminus x_2 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_4^0 \setminus x_3 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_4^0 \setminus x_4 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_4^0 \setminus x_5 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_4^0 \setminus x_6 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_4^0 \setminus x_7 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_4^0 \setminus x_8 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_4^0 \setminus x_9 \approx \mathcal{C}(8, 5)$
Polytope	\mathcal{P}_5^0
Facets	12356 12357 12367 12456 12457 12467 13457 13458 13467 13469 13489 13569 13589 14568 14689 15689 23569 23578 23589 23679 23789 24568 24578 24678 25689 26789 34578 34679 34789 46789
UEs	13 14 15 16 25 26 27 35 37 39 46 47 48 58 69 89
MFs	128 129 178 179 234 249 368 459 567 579
Vertex Figures	$\mathcal{P}_5^0/x_1 \approx \mathcal{G}_{16}^4$ $\mathcal{P}_5^0/x_2 \approx \mathcal{G}_{16}^6$ $\mathcal{P}_5^0/x_3 \approx \mathcal{G}_{18}^5$ $\mathcal{P}_5^0/x_4 \approx \mathcal{G}_{17}^5$ $\mathcal{P}_5^0/x_5 \approx \mathcal{G}_{17}^5$ $\mathcal{P}_5^0/x_6 \approx \mathcal{G}_{18}^5$ $\mathcal{P}_5^0/x_7 \approx \mathcal{G}_{16}^6$ $\mathcal{P}_5^0/x_8 \approx \mathcal{G}_{17}^7$ $\mathcal{P}_5^0/x_9 \approx \mathcal{G}_{15}^5$
Subpolytopes	$\mathcal{P}_5^0 \setminus x_1 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_5^0 \setminus x_2 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_5^0 \setminus x_3 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_5^0 \setminus x_4 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_5^0 \setminus x_5 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_5^0 \setminus x_6 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_5^0 \setminus x_7 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_5^0 \setminus x_8 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_5^0 \setminus x_9 \approx \mathcal{N}(8, 5)$
Polytope	\mathcal{P}_6^0
Facets	12345 12349 12359 12458 12489 12568 12569 12678 12679 12789 13456 13469 13569 14567 14578 14679 14789 15678 23458 23489 23568 23569 23678 23679 23789 34568 34678 34679 34789 45678
UEs	12 14 15 16 19 23 28 29 34 36 39 48 56 67 78

MFs	137 138 246 247 257 357 459 579 589 689
Vertex Figures	$\mathcal{P}_6^0/x_1 \approx \mathcal{G}_{18}^2$ $\mathcal{P}_6^0/x_2 \approx \mathcal{G}_{17}^4$ $\mathcal{P}_6^0/x_3 \approx \mathcal{G}_{17}^5$ $\mathcal{P}_6^0/x_4 \approx \mathcal{G}_{17}^7$ $\mathcal{P}_6^0/x_5 \approx \mathcal{G}_{15}^3$ $\mathcal{P}_6^0/x_6 \approx \mathcal{G}_{18}^4$ $\mathcal{P}_6^0/x_7 \approx \mathcal{G}_{15}^4$ $\mathcal{P}_6^0/x_8 \approx \mathcal{G}_{17}^7$ $\mathcal{P}_6^0/x_9 \approx \mathcal{G}_{16}^2$
Subpolytopes	$\mathcal{P}_6^0 \setminus x_1 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_6^0 \setminus x_2 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_6^0 \setminus x_3 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_6^0 \setminus x_4 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_6^0 \setminus x_5 \approx \mathcal{N}(8, 5)$ $\mathcal{P}_6^0 \setminus x_6 \approx \mathcal{N}(8, 5)$ $\mathcal{P}_6^0 \setminus x_7 \approx \mathcal{N}(8, 5)$ $\mathcal{P}_6^0 \setminus x_8 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_6^0 \setminus x_9 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$
Polytope	\mathcal{P}_7^0
Facets	12345 12349 12356 12367 12378 12389 12459 12568 12589 12678 13456 13469 13679 13789 14569 15678 15679 15789 23458 23489 23568 23678 24589 34568 34678 34679 34789 45678 45679 45789
UEs	12 13 15 16 19 23 28 34 36 38 45 49 56 58 67 78
MFs	147 148 246 247 257 269 279 357 359 689
Vertex Figures	$\mathcal{P}_7^0/x_1 \approx \mathcal{G}_{18}^2$ $\mathcal{P}_7^0/x_2 \approx \mathcal{G}_{15}^2$ $\mathcal{P}_7^0/x_3 \approx \mathcal{G}_{18}^1$ $\mathcal{P}_7^0/x_4 \approx \mathcal{G}_{16}^6$ $\mathcal{P}_7^0/x_5 \approx \mathcal{G}_{17}^5$ $\mathcal{P}_7^0/x_6 \approx \mathcal{G}_{17}^5$ $\mathcal{P}_7^0/x_7 \approx \mathcal{G}_{15}^4$ $\mathcal{P}_7^0/x_8 \approx \mathcal{G}_{18}^4$ $\mathcal{P}_7^0/x_9 \approx \mathcal{G}_{16}^7$
Subpolytopes	$\mathcal{P}_7^0 \setminus x_1 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_7^0 \setminus x_2 \approx \mathcal{N}(8, 5)$ $\mathcal{P}_7^0 \setminus x_3 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_7^0 \setminus x_4 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_7^0 \setminus x_5 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_7^0 \setminus x_6 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_7^0 \setminus x_7 \approx \mathcal{N}(8, 5)$ $\mathcal{P}_7^0 \setminus x_8 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_7^0 \setminus x_9 \approx \mathcal{C}(8, 5)$
Polytope	\mathcal{P}_8^0
Facets	12345 12348 12359 12367 12369 12378 12459 12489 12678 12689 13456 13467 13478 13569 14569 14679 14789 16789 23458 23568 23569 23678 24589 25689 34568 34678 45678 45679 45789 56789
UEs	12 13 14 16 19 23 28 36 45 48 56 59 67 68 69 78
MFs	157 158 246 247 257 279 349 357 379 389
Vertex Figures	$\mathcal{P}_8^0/x_1 \approx \mathcal{G}_{18}^2$ $\mathcal{P}_8^0/x_2 \approx \mathcal{G}_{16}^1$ $\mathcal{P}_8^0/x_3 \approx \mathcal{G}_{16}^1$ $\mathcal{P}_8^0/x_4 \approx \mathcal{G}_{17}^7$ $\mathcal{P}_8^0/x_5 \approx \mathcal{G}_{16}^1$ $\mathcal{P}_8^0/x_6 \approx \mathcal{G}_{19}^2$ $\mathcal{P}_8^0/x_7 \approx \mathcal{G}_{14}^2$ $\mathcal{P}_8^0/x_8 \approx \mathcal{G}_{18}^4$ $\mathcal{P}_8^0/x_9 \approx \mathcal{G}_{16}^2$
Subpolytopes	$\mathcal{P}_8^0 \setminus x_1 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_8^0 \setminus x_2 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_8^0 \setminus x_3 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_8^0 \setminus x_4 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_8^0 \setminus x_5 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_8^0 \setminus x_6 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_8^0 \setminus x_7 \approx \mathcal{N}(8, 5)$ $\mathcal{P}_8^0 \setminus x_8 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_8^0 \setminus x_9 \approx \mathcal{C}(8, 5)$
Polytope	\mathcal{P}_9^0
Facets	12345 12349 12356 12367 12378 12389 12458 12489 12568 12678 13456 13469 13679 13789 14567 14578 14679 14789 15678 23459 23568 23589 23678 24589 34569 35689 36789 45678 45689 46789

UEs	12 13 14 16 17 18 23 28 36 39 45 49 56 58 67 68 78 89
MFs	159 246 247 257 269 279 347 348 357 579
Vertex Figures	$\mathcal{P}_9^0/x_1 \approx \mathcal{G}_{19}^1$ $\mathcal{P}_9^0/x_2 \approx \mathcal{G}_{15}^2$ $\mathcal{P}_9^0/x_3 \approx \mathcal{G}_{17}^5$ $\mathcal{P}_9^0/x_4 \approx \mathcal{G}_{16}^6$ $\mathcal{P}_9^0/x_5 \approx \mathcal{G}_{16}^1$ $\mathcal{P}_9^0/x_6 \approx \mathcal{G}_{18}^3$ $\mathcal{P}_9^0/x_7 \approx \mathcal{G}_{14}^3$ $\mathcal{P}_9^0/x_8 \approx \mathcal{G}_{19}^1$ $\mathcal{P}_9^0/x_9 \approx \mathcal{G}_{16}^6$
Subpolytopes	$\mathcal{P}_9^0 \setminus x_1 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_9^0 \setminus x_2 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_9^0 \setminus x_3 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_9^0 \setminus x_4 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_9^0 \setminus x_5 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_9^0 \setminus x_6 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_9^0 \setminus x_7 \approx \mathcal{N}(8, 5)$ $\mathcal{P}_9^0 \setminus x_8 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_9^0 \setminus x_9 \approx \mathcal{C}(8, 5)$
Polytope	\mathcal{P}_{10}^0
Facets	12345 12349 12356 12367 12378 12389 12458 12489 12568 12678 13459 13569 13679 13789 14589 15678 15679 15789 23458 23489 23568 23678 34568 34569 34678 34679 34789 45678 45679 45789
UEs	12 13 15 18 19 23 28 34 36 38 39 45 48 49 56 58 67 78
MFs	146 147 246 247 257 259 269 279 357 689
Vertex Figures	$\mathcal{P}_{10}^0/x_1 \approx \mathcal{G}_{18}^3$ $\mathcal{P}_{10}^0/x_2 \approx \mathcal{G}_{14}^3$ $\mathcal{P}_{10}^0/x_3 \approx \mathcal{G}_{19}^1$ $\mathcal{P}_{10}^0/x_4 \approx \mathcal{G}_{16}^4$ $\mathcal{P}_{10}^0/x_5 \approx \mathcal{G}_{17}^5$ $\mathcal{P}_{10}^0/x_6 \approx \mathcal{G}_{16}^6$ $\mathcal{P}_{10}^0/x_7 \approx \mathcal{G}_{15}^4$ $\mathcal{P}_{10}^0/x_8 \approx \mathcal{G}_{19}^2$ $\mathcal{P}_{10}^0/x_9 \approx \mathcal{G}_{16}^2$
Subpolytopes	$\mathcal{P}_{10}^0 \setminus x_1 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{10}^0 \setminus x_2 \approx \mathcal{N}(8, 5)$ $\mathcal{P}_{10}^0 \setminus x_3 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{10}^0 \setminus x_4 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{10}^0 \setminus x_5 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{10}^0 \setminus x_6 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{10}^0 \setminus x_7 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{10}^0 \setminus x_8 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{10}^0 \setminus x_9 \approx \mathcal{C}(8, 5)$
Polytope	\mathcal{P}_{11}^0
Facets	12345 12348 12359 12367 12369 12378 12458 12589 12678 12689 13459 13467 13469 13478 14589 14679 14789 16789 23458 23568 23569 23678 25689 34568 34569 34678 45678 45679 45789 56789
UEs	12 13 14 18 19 23 28 34 36 45 48 58 59 67 68 69 78
MFs	156 157 246 247 249 257 279 357 379 389
Vertex Figures	$\mathcal{P}_{11}^0/x_1 \approx \mathcal{G}_{18}^3$ $\mathcal{P}_{11}^0/x_2 \approx \mathcal{G}_{15}^1$ $\mathcal{P}_{11}^0/x_3 \approx \mathcal{G}_{17}^3$ $\mathcal{P}_{11}^0/x_4 \approx \mathcal{G}_{17}^1$ $\mathcal{P}_{11}^0/x_5 \approx \mathcal{G}_{16}^1$ $\mathcal{P}_{11}^0/x_6 \approx \mathcal{G}_{18}^5$ $\mathcal{P}_{11}^0/x_7 \approx \mathcal{G}_{14}^2$ $\mathcal{P}_{11}^0/x_8 \approx \mathcal{G}_{19}^4$ $\mathcal{P}_{11}^0/x_9 \approx \mathcal{G}_{16}^6$
Subpolytopes	$\mathcal{P}_{11}^0 \setminus x_1 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{11}^0 \setminus x_2 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{11}^0 \setminus x_3 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{11}^0 \setminus x_4 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{11}^0 \setminus x_5 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{11}^0 \setminus x_6 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{11}^0 \setminus x_7 \approx \mathcal{N}(8, 5)$ $\mathcal{P}_{11}^0 \setminus x_8 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{11}^0 \setminus x_9 \approx \mathcal{C}(8, 5)$
Polytope	\mathcal{P}_{12}^0

Facets	12345 12349 12356 12369 12459 12569 13456 13467 13478 13489 13679 13789 14567 14578 14589 15678 15689 16789 23458 23489 23568 23678 23679 23789 24589 25689 26789 34568 34678 45678
UEs	13 14 15 16 19 23 29 34 36 38 45 48 56 58 67 68 78 89
MFs	127 128 246 247 257 357 359 469 479 579
Vertex Figures	$\mathcal{P}_{12}^0/x_1 \approx \mathcal{G}_{18}^3$ $\mathcal{P}_{12}^0/x_2 \approx \mathcal{G}_{15}^4$ $\mathcal{P}_{12}^0/x_3 \approx \mathcal{G}_{18}^1$ $\mathcal{P}_{12}^0/x_4 \approx \mathcal{G}_{16}^5$ $\mathcal{P}_{12}^0/x_5 \approx \mathcal{G}_{16}^3$ $\mathcal{P}_{12}^0/x_6 \approx \mathcal{G}_{18}^3$ $\mathcal{P}_{12}^0/x_7 \approx \mathcal{G}_{14}^2$ $\mathcal{P}_{12}^0/x_8 \approx \mathcal{G}_{19}^1$ $\mathcal{P}_{12}^0/x_9 \approx \mathcal{G}_{16}^6$
Subpolytopes	$\mathcal{P}_{12}^0 \setminus x_1 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{12}^0 \setminus x_2 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{12}^0 \setminus x_3 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{12}^0 \setminus x_4 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{12}^0 \setminus x_5 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{12}^0 \setminus x_6 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{12}^0 \setminus x_7 \approx \mathcal{N}(8, 5)$ $\mathcal{P}_{12}^0 \setminus x_8 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{12}^0 \setminus x_9 \approx \mathcal{C}(8, 5)$
Polytope	\mathcal{P}_{13}^0
Facets	12345 12349 12356 12369 12458 12489 12568 12678 12679 12789 13459 13569 14567 14569 14578 14679 14789 15678 23458 23489 23568 23678 23679 23789 34568 34569 34678 34679 34789 45678
UEs	12 14 15 16 19 23 28 34 36 39 45 48 49 56 67 78
MFs	137 138 246 247 257 259 357 579 589 689
Vertex Figures	$\mathcal{P}_{13}^0/x_1 \approx \mathcal{G}_{18}^3$ $\mathcal{P}_{13}^0/x_2 \approx \mathcal{G}_{16}^6$ $\mathcal{P}_{13}^0/x_3 \approx \mathcal{G}_{17}^5$ $\mathcal{P}_{13}^0/x_4 \approx \mathcal{G}_{18}^3$ $\mathcal{P}_{13}^0/x_5 \approx \mathcal{G}_{15}^1$ $\mathcal{P}_{13}^0/x_6 \approx \mathcal{G}_{18}^6$ $\mathcal{P}_{13}^0/x_7 \approx \mathcal{G}_{15}^4$ $\mathcal{P}_{13}^0/x_8 \approx \mathcal{G}_{17}^7$ $\mathcal{P}_{13}^0/x_9 \approx \mathcal{G}_{16}^2$
Subpolytopes	$\mathcal{P}_{13}^0 \setminus x_1 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{13}^0 \setminus x_2 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{13}^0 \setminus x_3 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{13}^0 \setminus x_4 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{13}^0 \setminus x_5 \approx \mathcal{N}(8, 5)$ $\mathcal{P}_{13}^0 \setminus x_6 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{13}^0 \setminus x_7 \approx \mathcal{N}(8, 5)$ $\mathcal{P}_{13}^0 \setminus x_8 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{13}^0 \setminus x_9 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$
Polytope	\mathcal{P}_{14}^0
Facets	12345 12348 12356 12367 12378 12459 12489 12569 12678 12689 13459 13467 13469 13478 13569 14679 14789 16789 23458 23568 23678 24589 25689 34568 34569 34678 45678 45679 45789 56789
UEs	12 13 14 16 19 28 34 36 45 48 49 56 59 67 68 69 78
MFs	157 158 239 246 247 257 279 357 379 389
Vertex Figures	$\mathcal{P}_{14}^0/x_1 \approx \mathcal{G}_{18}^3$ $\mathcal{P}_{14}^0/x_2 \approx \mathcal{G}_{15}^4$ $\mathcal{P}_{14}^0/x_3 \approx \mathcal{G}_{16}^1$ $\mathcal{P}_{14}^0/x_4 \approx \mathcal{G}_{18}^3$ $\mathcal{P}_{14}^0/x_5 \approx \mathcal{G}_{16}^2$ $\mathcal{P}_{14}^0/x_6 \approx \mathcal{G}_{19}^2$ $\mathcal{P}_{14}^0/x_7 \approx \mathcal{G}_{14}^2$ $\mathcal{P}_{14}^0/x_8 \approx \mathcal{G}_{18}^4$ $\mathcal{P}_{14}^0/x_9 \approx \mathcal{G}_{16}^3$
Subpolytopes	$\mathcal{P}_{14}^0 \setminus x_1 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{14}^0 \setminus x_2 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{14}^0 \setminus x_3 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{14}^0 \setminus x_4 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{14}^0 \setminus x_5 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{14}^0 \setminus x_6 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{14}^0 \setminus x_7 \approx \mathcal{N}(8, 5)$ $\mathcal{P}_{14}^0 \setminus x_8 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{14}^0 \setminus x_9 \approx \mathcal{C}(8, 5)$

Polytope	\mathcal{P}_{15}^0
Facets	12345 12348 12359 12389 12458 12568 12569 12678 12679 12789 13459 13489 14567 14569 14578 14679 14789 15678 23458 23568 23569 23678 23679 23789 34568 34569 34678 34679 34789 45678
UEs	12 14 15 18 19 23 28 34 38 39 45 48 56 67 78
MFs	136 137 246 247 249 257 357 579 589 689
Vertex Figures	$\mathcal{P}_{15}^0/x_1 \approx \mathcal{G}_{18}^2$ $\mathcal{P}_{15}^0/x_2 \approx \mathcal{G}_{16}^2$ $\mathcal{P}_{15}^0/x_3 \approx \mathcal{G}_{17}^4$ $\mathcal{P}_{15}^0/x_4 \approx \mathcal{G}_{17}^1$ $\mathcal{P}_{15}^0/x_5 \approx \mathcal{G}_{16}^1$ $\mathcal{P}_{15}^0/x_6 \approx \mathcal{G}_{17}^8$ $\mathcal{P}_{15}^0/x_7 \approx \mathcal{G}_{15}^4$ $\mathcal{P}_{15}^0/x_8 \approx \mathcal{G}_{18}^3$ $\mathcal{P}_{15}^0/x_9 \approx \mathcal{G}_{16}^7$
Subpolytopes	$\mathcal{P}_{15}^0 \setminus x_1 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{15}^0 \setminus x_2 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{15}^0 \setminus x_3 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{15}^0 \setminus x_4 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{15}^0 \setminus x_5 \approx \mathcal{N}(8, 5)$ $\mathcal{P}_{15}^0 \setminus x_6 \approx \mathcal{N}(8, 5)$ $\mathcal{P}_{15}^0 \setminus x_7 \approx \mathcal{N}(8, 5)$ $\mathcal{P}_{15}^0 \setminus x_8 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{15}^0 \setminus x_9 \approx \mathcal{C}(8, 5)$
Polytope	\mathcal{P}_{16}^0
Facets	12345 12348 12356 12367 12378 12459 12489 12568 12589 12678 13459 13489 13569 13679 13789 15678 15679 15789 23458 23568 23678 24589 34568 34569 34678 34679 34789 45678 45679 45789
UEs	12 13 15 18 19 28 34 36 38 45 48 49 56 58 59 67 78
MFs	146 147 239 246 247 257 269 279 357 689
Vertex Figures	$\mathcal{P}_{16}^0/x_1 \approx \mathcal{G}_{18}^2$ $\mathcal{P}_{16}^0/x_2 \approx \mathcal{G}_{14}^2$ $\mathcal{P}_{16}^0/x_3 \approx \mathcal{G}_{18}^5$ $\mathcal{P}_{16}^0/x_4 \approx \mathcal{G}_{16}^4$ $\mathcal{P}_{16}^0/x_5 \approx \mathcal{G}_{18}^1$ $\mathcal{P}_{16}^0/x_6 \approx \mathcal{G}_{16}^6$ $\mathcal{P}_{16}^0/x_7 \approx \mathcal{G}_{15}^4$ $\mathcal{P}_{16}^0/x_8 \approx \mathcal{G}_{19}^3$ $\mathcal{P}_{16}^0/x_9 \approx \mathcal{G}_{16}^2$
Subpolytopes	$\mathcal{P}_{16}^0 \setminus x_1 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{16}^0 \setminus x_2 \approx \mathcal{N}(8, 5)$ $\mathcal{P}_{16}^0 \setminus x_3 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{16}^0 \setminus x_4 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{16}^0 \setminus x_5 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{16}^0 \setminus x_6 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{16}^0 \setminus x_7 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{16}^0 \setminus x_8 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{16}^0 \setminus x_9 \approx \mathcal{C}(8, 5)$
Polytope	\mathcal{P}_{17}^0
Facets	12345 12348 12356 12369 12378 12379 12458 12568 12678 12679 13459 13478 13479 13569 14567 14569 14578 14679 15678 23458 23568 23689 23789 26789 34589 34789 35689 45678 45689 46789
UEs	12 13 14 15 16 17 23 28 38 39 45 48 56 58 68 69 78
MFs	189 246 247 249 257 259 346 357 367 579
Vertex Figures	$\mathcal{P}_{17}^0/x_1 \approx \mathcal{G}_{19}^2$ $\mathcal{P}_{17}^0/x_2 \approx \mathcal{G}_{15}^2$ $\mathcal{P}_{17}^0/x_3 \approx \mathcal{G}_{17}^4$ $\mathcal{P}_{17}^0/x_4 \approx \mathcal{G}_{16}^2$ $\mathcal{P}_{17}^0/x_5 \approx \mathcal{G}_{16}^3$ $\mathcal{P}_{17}^0/x_6 \approx \mathcal{G}_{17}^3$ $\mathcal{P}_{17}^0/x_7 \approx \mathcal{G}_{15}^4$ $\mathcal{P}_{17}^0/x_8 \approx \mathcal{G}_{19}^2$ $\mathcal{P}_{17}^0/x_9 \approx \mathcal{G}_{16}^7$

Subpolytopes	$\mathcal{P}_{17}^0 \setminus x_1 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{17}^0 \setminus x_2 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{17}^0 \setminus x_3 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{17}^0 \setminus x_4 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{17}^0 \setminus x_5 \approx \mathcal{N}(8, 5)$ $\mathcal{P}_{17}^0 \setminus x_6 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{17}^0 \setminus x_7 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{17}^0 \setminus x_8 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{17}^0 \setminus x_9 \approx \mathcal{C}(8, 5)$
Polytope	\mathcal{P}_{18}^0
Facets	12356 12359 12369 12458 12459 12489 12568 12678 12679 12789 13456 13459 13469 14567 14578 14679 14789 15678 23458 23459 23489 23568 23678 23679 23789 34568 34678 34679 34789 45678
UEs	12 14 15 16 19 23 28 29 34 36 39 45 48 49 67 78
MFs	137 138 246 247 257 357 569 579 589 689
Vertex Figures	$\mathcal{P}_{18}^0/x_1 \approx \mathcal{G}_{18}^3$ $\mathcal{P}_{18}^0/x_2 \approx \mathcal{G}_{17}^3$ $\mathcal{P}_{18}^0/x_3 \approx \mathcal{G}_{17}^3$ $\mathcal{P}_{18}^0/x_4 \approx \mathcal{G}_{18}^3$ $\mathcal{P}_{18}^0/x_5 \approx \mathcal{G}_{15}^3$ $\mathcal{P}_{18}^0/x_6 \approx \mathcal{G}_{17}^7$ $\mathcal{P}_{18}^0/x_7 \approx \mathcal{G}_{15}^4$ $\mathcal{P}_{18}^0/x_8 \approx \mathcal{G}_{17}^7$ $\mathcal{P}_{18}^0/x_9 \approx \mathcal{G}_{16}^3$
Subpolytopes	$\mathcal{P}_{18}^0 \setminus x_1 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{18}^0 \setminus x_2 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{18}^0 \setminus x_3 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{18}^0 \setminus x_4 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{18}^0 \setminus x_5 \approx \mathcal{N}(8, 5)$ $\mathcal{P}_{18}^0 \setminus x_6 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{18}^0 \setminus x_7 \approx \mathcal{N}(8, 5)$ $\mathcal{P}_{18}^0 \setminus x_8 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{18}^0 \setminus x_9 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$
Polytope	\mathcal{P}_{19}^0
Facets	12348 12349 12356 12359 12367 12378 12489 12569 12678 12689 13456 13459 13467 13478 14569 14679 14789 16789 23458 23459 23568 23678 24589 25689 34568 34678 45678 45679 45789 56789
UEs	12 13 14 16 19 23 28 34 45 48 49 56 59 67 68 78
MFs	157 158 246 247 257 279 357 369 379 389
Vertex Figures	$\mathcal{P}_{19}^0/x_1 \approx \mathcal{G}_{18}^3$ $\mathcal{P}_{19}^0/x_2 \approx \mathcal{G}_{16}^1$ $\mathcal{P}_{19}^0/x_3 \approx \mathcal{G}_{16}^2$ $\mathcal{P}_{19}^0/x_4 \approx \mathcal{G}_{18}^3$ $\mathcal{P}_{19}^0/x_5 \approx \mathcal{G}_{16}^1$ $\mathcal{P}_{19}^0/x_6 \approx \mathcal{G}_{18}^4$ $\mathcal{P}_{19}^0/x_7 \approx \mathcal{G}_{14}^2$ $\mathcal{P}_{19}^0/x_8 \approx \mathcal{G}_{18}^4$ $\mathcal{P}_{19}^0/x_9 \approx \mathcal{G}_{16}^2$
Subpolytopes	$\mathcal{P}_{19}^0 \setminus x_1 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{19}^0 \setminus x_2 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{19}^0 \setminus x_3 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{19}^0 \setminus x_4 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{19}^0 \setminus x_5 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{19}^0 \setminus x_6 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{19}^0 \setminus x_7 \approx \mathcal{N}(8, 5)$ $\mathcal{P}_{19}^0 \setminus x_8 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{19}^0 \setminus x_9 \approx \mathcal{C}(8, 5)$
Polytope	\mathcal{P}_{20}^0
Facets	12345 12348 12356 12369 12378 12379 12458 12569 12589 12789 13456 13469 13478 13479 14569 14578 14579 15789 23458 23568 23678 23679 25689 26789 34568 34678 34679 45678 45679 56789
UEs	12 13 14 15 19 23 28 34 36 45 56 58 69 78 79
MFs	167 168 246 247 249 257 357 359 389 489

Vertex Figures	$\mathcal{P}_{20}^0/x_1 \approx \mathcal{G}_{18}^3$ $\mathcal{P}_{20}^0/x_2 \approx \mathcal{G}_{16}^1$ $\mathcal{P}_{20}^0/x_3 \approx \mathcal{G}_{17}^4$ $\mathcal{P}_{20}^0/x_4 \approx \mathcal{G}_{16}^2$ $\mathcal{P}_{20}^0/x_5 \approx \mathcal{G}_{17}^5$ $\mathcal{P}_{20}^0/x_6 \approx \mathcal{G}_{17}^7$ $\mathcal{P}_{20}^0/x_7 \approx \mathcal{G}_{16}^7$ $\mathcal{P}_{20}^0/x_8 \approx \mathcal{G}_{17}^7$ $\mathcal{P}_{20}^0/x_9 \approx \mathcal{G}_{16}^6$
Subpolytopes	$\mathcal{P}_{20}^0 \setminus x_1 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{20}^0 \setminus x_2 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{20}^0 \setminus x_3 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{20}^0 \setminus x_4 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{20}^0 \setminus x_5 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{20}^0 \setminus x_6 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{20}^0 \setminus x_7 \approx \mathcal{N}(8, 5)$ $\mathcal{P}_{20}^0 \setminus x_8 \approx \mathcal{N}(8, 5)$ $\mathcal{P}_{20}^0 \setminus x_9 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$
Polytope	\mathcal{P}_{21}^0
Facets	12345 12348 12356 12369 12378 12379 12458 12568 12678 12679 13456 13469 13478 13479 14567 14578 14679 15678 23458 23569 23589 23789 25689 26789 34569 34589 34789 45678 45689 46789
UEs	12 13 14 16 17 23 28 34 39 45 48 56 58 69 78
MFs	159 189 246 247 249 257 357 367 368 579
Vertex Figures	$\mathcal{P}_{21}^0/x_1 \approx \mathcal{G}_{18}^1$ $\mathcal{P}_{21}^0/x_2 \approx \mathcal{G}_{16}^1$ $\mathcal{P}_{21}^0/x_3 \approx \mathcal{G}_{17}^3$ $\mathcal{P}_{21}^0/x_4 \approx \mathcal{G}_{17}^1$ $\mathcal{P}_{21}^0/x_5 \approx \mathcal{G}_{16}^1$ $\mathcal{P}_{21}^0/x_6 \approx \mathcal{G}_{17}^7$ $\mathcal{P}_{21}^0/x_7 \approx \mathcal{G}_{15}^4$ $\mathcal{P}_{21}^0/x_8 \approx \mathcal{G}_{18}^4$ $\mathcal{P}_{21}^0/x_9 \approx \mathcal{G}_{16}^7$
Subpolytopes	$\mathcal{P}_{21}^0 \setminus x_1 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{21}^0 \setminus x_2 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{21}^0 \setminus x_3 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{21}^0 \setminus x_4 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{21}^0 \setminus x_5 \approx \mathcal{N}(8, 5)$ $\mathcal{P}_{21}^0 \setminus x_6 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{21}^0 \setminus x_7 \approx \mathcal{N}(8, 5)$ $\mathcal{P}_{21}^0 \setminus x_8 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{21}^0 \setminus x_9 \approx \mathcal{C}(8, 5)$
Polytope	\mathcal{P}_{22}^0
Facets	12345 12348 12356 12367 12378 12458 12569 12589 12678 12689 13456 13467 13478 14569 14578 14579 14679 15789 16789 23458 23569 23589 23678 23689 34569 34589 34678 34689 45789 46789
UEs	12 14 15 16 17 18 23 28 34 36 38 45 48 59 69 78 89
MFs	139 246 247 249 257 279 357 379 567 568
Vertex Figures	$\mathcal{P}_{22}^0/x_1 \approx \mathcal{G}_{19}^2$ $\mathcal{P}_{22}^0/x_2 \approx \mathcal{G}_{15}^1$ $\mathcal{P}_{22}^0/x_3 \approx \mathcal{G}_{17}^3$ $\mathcal{P}_{22}^0/x_4 \approx \mathcal{G}_{17}^1$ $\mathcal{P}_{22}^0/x_5 \approx \mathcal{G}_{16}^1$ $\mathcal{P}_{22}^0/x_6 \approx \mathcal{G}_{17}^7$ $\mathcal{P}_{22}^0/x_7 \approx \mathcal{G}_{14}^2$ $\mathcal{P}_{22}^0/x_8 \approx \mathcal{G}_{19}^1$ $\mathcal{P}_{22}^0/x_9 \approx \mathcal{G}_{16}^6$
Subpolytopes	$\mathcal{P}_{22}^0 \setminus x_1 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{22}^0 \setminus x_2 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{22}^0 \setminus x_3 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{22}^0 \setminus x_4 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{22}^0 \setminus x_5 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{22}^0 \setminus x_6 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{22}^0 \setminus x_7 \approx \mathcal{N}(8, 5)$ $\mathcal{P}_{22}^0 \setminus x_8 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{22}^0 \setminus x_9 \approx \mathcal{C}(8, 5)$
Polytope	\mathcal{P}_{23}^0
Facets	12348 12349 12356 12359 12367 12378 12489 12568 12589 12678 13467 13469 13478 13569 14679 14789 15689 16789 23458 23459 23568 23678 24589 34568 34569 34678 45678 45679 45789 56789
UEs	12 13 16 18 19 23 28 34 36 48 49 56 58 59 67 68 78

MFs	145 157 246 247 257 269 279 357 379 389
Vertex Figures	$\mathcal{P}_{23}^0/x_1 \approx \mathcal{G}_{18}^1$ $\mathcal{P}_{23}^0/x_2 \approx \mathcal{G}_{15}^2$ $\mathcal{P}_{23}^0/x_3 \approx \mathcal{G}_{17}^5$ $\mathcal{P}_{23}^0/x_4 \approx \mathcal{G}_{17}^7$ $\mathcal{P}_{23}^0/x_5 \approx \mathcal{G}_{16}^1$ $\mathcal{P}_{23}^0/x_6 \approx \mathcal{G}_{18}^1$ $\mathcal{P}_{23}^0/x_7 \approx \mathcal{G}_{14}^2$ $\mathcal{P}_{23}^0/x_8 \approx \mathcal{G}_{19}^2$ $\mathcal{P}_{23}^0/x_9 \approx \mathcal{G}_{16}^6$
Subpolytopes	$\mathcal{P}_{23}^0 \setminus x_1 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{23}^0 \setminus x_2 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{23}^0 \setminus x_3 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{23}^0 \setminus x_4 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{23}^0 \setminus x_5 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{23}^0 \setminus x_6 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{23}^0 \setminus x_7 \approx \mathcal{N}(8, 5)$ $\mathcal{P}_{23}^0 \setminus x_8 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{23}^0 \setminus x_9 \approx \mathcal{C}(8, 5)$
Polytope	\mathcal{P}_{24}^0
Facets	12356 12359 12367 12379 12569 12679 13456 13459 13467 13478 13489 13789 14567 14578 14589 15678 15689 16789 23458 23459 23489 23568 23678 23789 24589 25689 26789 34568 34678 45678
UEs	13 15 16 17 19 23 29 34 38 45 48 56 58 67 68 78 89
MFs	124 128 246 247 257 357 369 469 479 579
Vertex Figures	$\mathcal{P}_{24}^0/x_1 \approx \mathcal{G}_{18}^1$ $\mathcal{P}_{24}^0/x_2 \approx \mathcal{G}_{15}^4$ $\mathcal{P}_{24}^0/x_3 \approx \mathcal{G}_{18}^4$ $\mathcal{P}_{24}^0/x_4 \approx \mathcal{G}_{15}^2$ $\mathcal{P}_{24}^0/x_5 \approx \mathcal{G}_{17}^2$ $\mathcal{P}_{24}^0/x_6 \approx \mathcal{G}_{17}^6$ $\mathcal{P}_{24}^0/x_7 \approx \mathcal{G}_{15}^2$ $\mathcal{P}_{24}^0/x_8 \approx \mathcal{G}_{19}^1$ $\mathcal{P}_{24}^0/x_9 \approx \mathcal{G}_{16}^6$
Subpolytopes	$\mathcal{P}_{24}^0 \setminus x_1 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{24}^0 \setminus x_2 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{24}^0 \setminus x_3 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{24}^0 \setminus x_4 \approx \mathcal{N}(8, 5)$ $\mathcal{P}_{24}^0 \setminus x_5 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{24}^0 \setminus x_6 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{24}^0 \setminus x_7 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{24}^0 \setminus x_8 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{24}^0 \setminus x_9 \approx \mathcal{C}(8, 5)$
Polytope	\mathcal{P}_{25}^0
Facets	12356 12359 12367 12379 12458 12459 12489 12568 12678 12789 13569 13679 14567 14569 14578 14679 14789 15678 23458 23459 23489 23568 23678 23789 34568 34569 34678 34679 34789 45678
UEs	12 15 16 17 19 23 28 36 39 45 48 49 56 67 78
MFs	134 138 246 247 257 269 357 579 589 689
Vertex Figures	$\mathcal{P}_{25}^0/x_1 \approx \mathcal{G}_{18}^1$ $\mathcal{P}_{25}^0/x_2 \approx \mathcal{G}_{16}^6$ $\mathcal{P}_{25}^0/x_3 \approx \mathcal{G}_{17}^7$ $\mathcal{P}_{25}^0/x_4 \approx \mathcal{G}_{17}^7$ $\mathcal{P}_{25}^0/x_5 \approx \mathcal{G}_{16}^1$ $\mathcal{P}_{25}^0/x_6 \approx \mathcal{G}_{17}^3$ $\mathcal{P}_{25}^0/x_7 \approx \mathcal{G}_{16}^1$ $\mathcal{P}_{25}^0/x_8 \approx \mathcal{G}_{17}^7$ $\mathcal{P}_{25}^0/x_9 \approx \mathcal{G}_{16}^6$
Subpolytopes	$\mathcal{P}_{25}^0 \setminus x_1 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{25}^0 \setminus x_2 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{25}^0 \setminus x_3 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{25}^0 \setminus x_4 \approx \mathcal{N}(8, 5)$ $\mathcal{P}_{25}^0 \setminus x_5 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{25}^0 \setminus x_6 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{25}^0 \setminus x_7 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{25}^0 \setminus x_8 \approx \mathcal{N}(8, 5)$ $\mathcal{P}_{25}^0 \setminus x_9 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$
Polytope	\mathcal{P}_{26}^0
Facets	12345 12348 12356 12367 12378 12458 12569 12589 12679 12789 13459 13478 13479 13569 13679 14578 14579 15789 23458 23568 23678 25689 26789 34568 34569 34678 34679 45678 45679 56789

UEs	12 13 15 17 19 28 34 36 45 56 58 59 67 69 78 79
MFs	146 168 239 246 247 249 257 357 389 489
Vertex Figures	$\mathcal{P}_{26}^0/x_1 \approx \mathcal{G}_{18}^1$ $\mathcal{P}_{26}^0/x_2 \approx \mathcal{G}_{15}^4$ $\mathcal{P}_{26}^0/x_3 \approx \mathcal{G}_{17}^7$ $\mathcal{P}_{26}^0/x_4 \approx \mathcal{G}_{15}^4$ $\mathcal{P}_{26}^0/x_5 \approx \mathcal{G}_{18}^1$ $\mathcal{P}_{26}^0/x_6 \approx \mathcal{G}_{17}^4$ $\mathcal{P}_{26}^0/x_7 \approx \mathcal{G}_{17}^4$ $\mathcal{P}_{26}^0/x_8 \approx \mathcal{G}_{17}^7$ $\mathcal{P}_{26}^0/x_9 \approx \mathcal{G}_{16}^5$
Subpolytopes	$\mathcal{P}_{26}^0 \setminus x_1 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{26}^0 \setminus x_2 \approx \mathcal{N}(8, 5)$ $\mathcal{P}_{26}^0 \setminus x_3 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{26}^0 \setminus x_4 \approx \mathcal{N}(8, 5)$ $\mathcal{P}_{26}^0 \setminus x_5 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{26}^0 \setminus x_6 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{26}^0 \setminus x_7 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{26}^0 \setminus x_8 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{26}^0 \setminus x_9 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$
Polytope	\mathcal{P}_{27}^0
Facets	12356 12359 12367 12379 12458 12459 12489 12568 12678 12789 13456 13459 13467 13478 13489 13789 14567 14578 15678 23569 23679 24589 25689 26789 34568 34589 34678 35689 36789 45678
UEs	12 13 14 15 17 18 29 36 39 45 48 56 58 67 68 78 89
MFs	169 234 238 246 247 257 357 469 479 579
Vertex Figures	$\mathcal{P}_{27}^0/x_1 \approx \mathcal{G}_{19}^3$ $\mathcal{P}_{27}^0/x_2 \approx \mathcal{G}_{15}^4$ $\mathcal{P}_{27}^0/x_3 \approx \mathcal{G}_{17}^7$ $\mathcal{P}_{27}^0/x_4 \approx \mathcal{G}_{15}^2$ $\mathcal{P}_{27}^0/x_5 \approx \mathcal{G}_{17}^2$ $\mathcal{P}_{27}^0/x_6 \approx \mathcal{G}_{17}^4$ $\mathcal{P}_{27}^0/x_7 \approx \mathcal{G}_{15}^2$ $\mathcal{P}_{27}^0/x_8 \approx \mathcal{G}_{19}^1$ $\mathcal{P}_{27}^0/x_9 \approx \mathcal{G}_{16}^6$
Subpolytopes	$\mathcal{P}_{27}^0 \setminus x_1 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{27}^0 \setminus x_2 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{27}^0 \setminus x_3 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{27}^0 \setminus x_4 \approx \mathcal{N}(8, 5)$ $\mathcal{P}_{27}^0 \setminus x_5 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{27}^0 \setminus x_6 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{27}^0 \setminus x_7 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{27}^0 \setminus x_8 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{27}^0 \setminus x_9 \approx \mathcal{C}(8, 5)$
Polytope	\mathcal{P}_{28}^0
Facets	12345 12348 12356 12367 12378 12458 12568 12678 13459 13478 13479 13569 13679 14567 14569 14578 14679 15678 23458 23569 23589 23679 23789 25689 26789 34589 34789 45678 45689 46789
UEs	13 14 15 16 17 23 28 39 45 48 56 58 67 69 78
MFs	129 189 246 247 249 257 346 357 368 579
Vertex Figures	$\mathcal{P}_{28}^0/x_1 \approx \mathcal{G}_{18}^3$ $\mathcal{P}_{28}^0/x_2 \approx \mathcal{G}_{15}^4$ $\mathcal{P}_{28}^0/x_3 \approx \mathcal{G}_{17}^7$ $\mathcal{P}_{28}^0/x_4 \approx \mathcal{G}_{16}^2$ $\mathcal{P}_{28}^0/x_5 \approx \mathcal{G}_{17}^2$ $\mathcal{P}_{28}^0/x_6 \approx \mathcal{G}_{17}^4$ $\mathcal{P}_{28}^0/x_7 \approx \mathcal{G}_{16}^1$ $\mathcal{P}_{28}^0/x_8 \approx \mathcal{G}_{18}^4$ $\mathcal{P}_{28}^0/x_9 \approx \mathcal{G}_{16}^7$
Subpolytopes	$\mathcal{P}_{28}^0 \setminus x_1 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{28}^0 \setminus x_2 \approx \mathcal{N}(8, 5)$ $\mathcal{P}_{28}^0 \setminus x_3 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{28}^0 \setminus x_4 \approx \mathcal{N}(8, 5)$ $\mathcal{P}_{28}^0 \setminus x_5 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{28}^0 \setminus x_6 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{28}^0 \setminus x_7 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{28}^0 \setminus x_8 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{28}^0 \setminus x_9 \approx \mathcal{C}(8, 5)$
Polytope	\mathcal{P}_{29}^0

Facets	12345 12348 12359 12367 12369 12378 12458 12568 12569 12678 13459 13478 13479 13679 14567 14569 14578 14679 15678 23458 23589 23678 23689 25689 34589 34789 36789 45678 45689 46789
UEs	12 13 14 15 16 17 23 28 38 39 45 48 58 67 68 69 78
MFs	189 246 247 249 257 279 346 356 357 579
Vertex Figures	$\mathcal{P}_{29}^0/x_1 \approx \mathcal{G}_{19}^4$ $\mathcal{P}_{29}^0/x_2 \approx \mathcal{G}_{15}^1$ $\mathcal{P}_{29}^0/x_3 \approx \mathcal{G}_{17}^3$ $\mathcal{P}_{29}^0/x_4 \approx \mathcal{G}_{16}^2$ $\mathcal{P}_{29}^0/x_5 \approx \mathcal{G}_{16}^2$ $\mathcal{P}_{29}^0/x_6 \approx \mathcal{G}_{17}^3$ $\mathcal{P}_{29}^0/x_7 \approx \mathcal{G}_{15}^1$ $\mathcal{P}_{29}^0/x_8 \approx \mathcal{G}_{19}^4$ $\mathcal{P}_{29}^0/x_9 \approx \mathcal{G}_{16}^7$
Subpolytopes	$\mathcal{P}_{29}^0 \setminus x_1 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{29}^0 \setminus x_2 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{29}^0 \setminus x_3 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{29}^0 \setminus x_4 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{29}^0 \setminus x_5 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{29}^0 \setminus x_6 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{29}^0 \setminus x_7 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{29}^0 \setminus x_8 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{29}^0 \setminus x_9 \approx \mathcal{C}(8, 5)$
Polytope	\mathcal{P}_{30}^0
Facets	12378 12379 12389 12458 12459 12489 12568 12569 12678 12679 13478 13479 13489 14567 14569 14578 14679 15678 23458 23459 23489 23568 23569 23678 23679 34568 34569 34678 34679 45678
UEs	12 14 17 18 19 23 28 29 34 38 39 45 48 49 56 67
MFs	135 136 246 247 257 357 579 589 689 789
Vertex Figures	$\mathcal{P}_{30}^0/x_1 \approx \mathcal{G}_{18}^3$ $\mathcal{P}_{30}^0/x_2 \approx \mathcal{G}_{17}^6$ $\mathcal{P}_{30}^0/x_3 \approx \mathcal{G}_{17}^6$ $\mathcal{P}_{30}^0/x_4 \approx \mathcal{G}_{18}^3$ $\mathcal{P}_{30}^0/x_5 \approx \mathcal{G}_{15}^4$ $\mathcal{P}_{30}^0/x_6 \approx \mathcal{G}_{17}^8$ $\mathcal{P}_{30}^0/x_7 \approx \mathcal{G}_{15}^4$ $\mathcal{P}_{30}^0/x_8 \approx \mathcal{G}_{17}^2$ $\mathcal{P}_{30}^0/x_9 \approx \mathcal{G}_{16}^3$
Subpolytopes	$\mathcal{P}_{30}^0 \setminus x_1 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{30}^0 \setminus x_2 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{30}^0 \setminus x_3 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{30}^0 \setminus x_4 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{30}^0 \setminus x_5 \approx \mathcal{N}(8, 5)$ $\mathcal{P}_{30}^0 \setminus x_6 \approx \mathcal{N}(8, 5)$ $\mathcal{P}_{30}^0 \setminus x_7 \approx \mathcal{N}(8, 5)$ $\mathcal{P}_{30}^0 \setminus x_8 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{30}^0 \setminus x_9 \approx \mathcal{C}(8, 5)$
Polytope	\mathcal{P}_{31}^0
Facets	12345 12348 12356 12369 12378 12379 12458 12568 12689 12789 13456 13469 13478 13479 14569 14589 14789 15689 23458 23568 23678 23679 26789 34568 34678 34679 45678 45679 45789 56789
UEs	12 13 14 18 19 23 28 34 36 45 48 56 58 68 69 78 79
MFs	157 167 246 247 249 257 259 357 359 389
Vertex Figures	$\mathcal{P}_{31}^0/x_1 \approx \mathcal{G}_{18}^3$ $\mathcal{P}_{31}^0/x_2 \approx \mathcal{G}_{15}^2$ $\mathcal{P}_{31}^0/x_3 \approx \mathcal{G}_{17}^4$ $\mathcal{P}_{31}^0/x_4 \approx \mathcal{G}_{17}^1$ $\mathcal{P}_{31}^0/x_5 \approx \mathcal{G}_{15}^2$ $\mathcal{P}_{31}^0/x_6 \approx \mathcal{G}_{18}^5$ $\mathcal{P}_{31}^0/x_7 \approx \mathcal{G}_{15}^4$ $\mathcal{P}_{31}^0/x_8 \approx \mathcal{G}_{19}^2$ $\mathcal{P}_{31}^0/x_9 \approx \mathcal{G}_{16}^6$
Subpolytopes	$\mathcal{P}_{31}^0 \setminus x_1 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{31}^0 \setminus x_2 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{31}^0 \setminus x_3 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{31}^0 \setminus x_4 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{31}^0 \setminus x_5 \approx \mathcal{N}(8, 5)$ $\mathcal{P}_{31}^0 \setminus x_6 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{31}^0 \setminus x_7 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{31}^0 \setminus x_8 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{31}^0 \setminus x_9 \approx \mathcal{C}(8, 5)$

Polytope	\mathcal{P}_{32}^0
Facets	12345 12349 12356 12367 12378 12389 12459 12569 12679 12789 13456 13467 13478 13489 14567 14579 14789 15679 23458 23489 23568 23678 24589 25689 26789 34568 34678 45678 45789 56789
UEs	12 13 14 17 19 23 28 29 34 38 45 48 56 67 78 89
MFs	158 168 246 247 257 357 359 369 379 469
Vertex Figures	$\mathcal{P}_{32}^0/x_1 \approx \mathcal{G}_{18}^3$ $\mathcal{P}_{32}^0/x_2 \approx \mathcal{G}_{17}^6$ $\mathcal{P}_{32}^0/x_3 \approx \mathcal{G}_{16}^3$ $\mathcal{P}_{32}^0/x_4 \approx \mathcal{G}_{17}^3$ $\mathcal{P}_{32}^0/x_5 \approx \mathcal{G}_{16}^7$ $\mathcal{P}_{32}^0/x_6 \approx \mathcal{G}_{16}^7$ $\mathcal{P}_{32}^0/x_7 \approx \mathcal{G}_{16}^6$ $\mathcal{P}_{32}^0/x_8 \approx \mathcal{G}_{18}^3$ $\mathcal{P}_{32}^0/x_9 \approx \mathcal{G}_{16}^2$
Subpolytopes	$\mathcal{P}_{32}^0 \setminus x_1 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{32}^0 \setminus x_2 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{32}^0 \setminus x_3 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{32}^0 \setminus x_4 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{32}^0 \setminus x_5 \approx \mathcal{N}(8, 5)$ $\mathcal{P}_{32}^0 \setminus x_6 \approx \mathcal{N}(8, 5)$ $\mathcal{P}_{32}^0 \setminus x_7 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{32}^0 \setminus x_8 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{32}^0 \setminus x_9 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$
Polytope	\mathcal{P}_{33}^0
Facets	12378 12379 12389 12678 12679 12689 13456 13459 13467 13478 13489 13569 13679 14567 14578 14589 15678 15689 23458 23459 23489 23568 23569 23678 23679 24589 25689 34568 34678 45678
UEs	13 16 17 18 19 23 28 29 34 36 38 39 45 48 56 58 67 68
MFs	124 125 246 247 257 357 469 479 579 789
Vertex Figures	$\mathcal{P}_{33}^0/x_1 \approx \mathcal{G}_{18}^2$ $\mathcal{P}_{33}^0/x_2 \approx \mathcal{G}_{15}^2$ $\mathcal{P}_{33}^0/x_3 \approx \mathcal{G}_{19}^1$ $\mathcal{P}_{33}^0/x_4 \approx \mathcal{G}_{15}^2$ $\mathcal{P}_{33}^0/x_5 \approx \mathcal{G}_{16}^2$ $\mathcal{P}_{33}^0/x_6 \approx \mathcal{G}_{18}^2$ $\mathcal{P}_{33}^0/x_7 \approx \mathcal{G}_{14}^2$ $\mathcal{P}_{33}^0/x_8 \approx \mathcal{G}_{19}^1$ $\mathcal{P}_{33}^0/x_9 \approx \mathcal{G}_{16}^2$
Subpolytopes	$\mathcal{P}_{33}^0 \setminus x_1 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{33}^0 \setminus x_2 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{33}^0 \setminus x_3 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{33}^0 \setminus x_4 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{33}^0 \setminus x_5 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{33}^0 \setminus x_6 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{33}^0 \setminus x_7 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{33}^0 \setminus x_8 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{33}^0 \setminus x_9 \approx \mathcal{C}(8, 5)$
Polytope	\mathcal{P}_{34}^0
Facets	12345 12349 12356 12367 12378 12389 12459 12569 12678 12689 13456 13467 13479 13789 14567 14579 15679 16789 23458 23489 23568 23678 24589 25689 34568 34678 34789 45678 45789 56789
UEs	12 13 16 17 19 23 28 34 38 45 56 67 68 78 89
MFs	148 158 246 247 257 279 357 359 369 469
Vertex Figures	$\mathcal{P}_{34}^0/x_1 \approx \mathcal{G}_{18}^2$ $\mathcal{P}_{34}^0/x_2 \approx \mathcal{G}_{16}^2$ $\mathcal{P}_{34}^0/x_3 \approx \mathcal{G}_{17}^4$ $\mathcal{P}_{34}^0/x_4 \approx \mathcal{G}_{16}^7$ $\mathcal{P}_{34}^0/x_5 \approx \mathcal{G}_{16}^7$ $\mathcal{P}_{34}^0/x_6 \approx \mathcal{G}_{17}^4$ $\mathcal{P}_{34}^0/x_7 \approx \mathcal{G}_{16}^2$ $\mathcal{P}_{34}^0/x_8 \approx \mathcal{G}_{18}^2$ $\mathcal{P}_{34}^0/x_9 \approx \mathcal{G}_{16}^7$

Subpolytopes	$\mathcal{P}_{34}^0 \setminus x_1 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{34}^0 \setminus x_2 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{34}^0 \setminus x_3 \approx \mathcal{N}(8, 5)$ $\mathcal{P}_{34}^0 \setminus x_4 \approx \mathcal{N}(8, 5)$ $\mathcal{P}_{34}^0 \setminus x_5 \approx \mathcal{N}(8, 5)$ $\mathcal{P}_{34}^0 \setminus x_6 \approx \mathcal{N}(8, 5)$ $\mathcal{P}_{34}^0 \setminus x_7 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{34}^0 \setminus x_8 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{34}^0 \setminus x_9 \approx \mathcal{C}(8, 5)$
Polytope	\mathcal{P}_{35}^0
Facets	12345 12348 12359 12378 12379 12458 12568 12569 12678 12679 13456 13469 13478 13479 13569 14567 14578 14679 15678 23458 23589 23789 25689 26789 34568 34689 34789 35689 45678 46789
UEs	12 13 14 15 16 17 28 34 38 39 48 56 58 68 69 78
MFs	189 236 246 247 249 257 357 367 459 579
Vertex Figures	$\mathcal{P}_{35}^0/x_1 \approx \mathcal{G}_{19}^3$ $\mathcal{P}_{35}^0/x_2 \approx \mathcal{G}_{15}^4$ $\mathcal{P}_{35}^0/x_3 \approx \mathcal{G}_{17}^4$ $\mathcal{P}_{35}^0/x_4 \approx \mathcal{G}_{16}^2$ $\mathcal{P}_{35}^0/x_5 \approx \mathcal{G}_{16}^2$ $\mathcal{P}_{35}^0/x_6 \approx \mathcal{G}_{17}^4$ $\mathcal{P}_{35}^0/x_7 \approx \mathcal{G}_{15}^4$ $\mathcal{P}_{35}^0/x_8 \approx \mathcal{G}_{19}^3$ $\mathcal{P}_{35}^0/x_9 \approx \mathcal{G}_{16}^7$
Subpolytopes	$\mathcal{P}_{35}^0 \setminus x_1 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{35}^0 \setminus x_2 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{35}^0 \setminus x_3 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{35}^0 \setminus x_4 \approx \mathcal{N}(8, 5)$ $\mathcal{P}_{35}^0 \setminus x_5 \approx \mathcal{N}(8, 5)$ $\mathcal{P}_{35}^0 \setminus x_6 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{35}^0 \setminus x_7 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{35}^0 \setminus x_8 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{35}^0 \setminus x_9 \approx \mathcal{C}(8, 5)$
Polytope	\mathcal{P}_{36}^0
Facets	12345 12349 12356 12367 12379 12459 12569 12679 13456 13467 13478 13489 13789 14567 14578 14589 15679 15789 23458 23489 23568 23678 23789 24589 25689 26789 34568 34678 45678 56789
UEs	13 14 15 17 19 23 29 34 38 45 48 56 58 67 78 89
MFs	128 168 246 247 257 357 359 369 469 479
Vertex Figures	$\mathcal{P}_{36}^0/x_1 \approx \mathcal{G}_{18}^1$ $\mathcal{P}_{36}^0/x_2 \approx \mathcal{G}_{16}^7$ $\mathcal{P}_{36}^0/x_3 \approx \mathcal{G}_{17}^4$ $\mathcal{P}_{36}^0/x_4 \approx \mathcal{G}_{16}^5$ $\mathcal{P}_{36}^0/x_5 \approx \mathcal{G}_{17}^4$ $\mathcal{P}_{36}^0/x_6 \approx \mathcal{G}_{16}^7$ $\mathcal{P}_{36}^0/x_7 \approx \mathcal{G}_{16}^6$ $\mathcal{P}_{36}^0/x_8 \approx \mathcal{G}_{18}^1$ $\mathcal{P}_{36}^0/x_9 \approx \mathcal{G}_{16}^6$
Subpolytopes	$\mathcal{P}_{36}^0 \setminus x_1 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{36}^0 \setminus x_2 \approx \mathcal{N}(8, 5)$ $\mathcal{P}_{36}^0 \setminus x_3 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{36}^0 \setminus x_4 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{36}^0 \setminus x_5 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{36}^0 \setminus x_6 \approx \mathcal{N}(8, 5)$ $\mathcal{P}_{36}^0 \setminus x_7 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{36}^0 \setminus x_8 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{36}^0 \setminus x_9 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$
Polytope	\mathcal{P}_{37}^0
Facets	12348 12349 12389 12458 12459 12568 12569 12678 12679 12789 13478 13479 13789 14567 14569 14578 14679 15678 23458 23459 23568 23569 23678 23679 23789 34568 34569 34678 34679 45678
UEs	12 14 17 18 19 23 28 29 34 38 39 45 56 67 78
MFs	135 136 246 247 257 357 489 579 589 689

Vertex Figures	$\mathcal{P}_{37}^0/x_1 \approx \mathcal{G}_{18}^3$ $\mathcal{P}_{37}^0/x_2 \approx \mathcal{G}_{17}^6$ $\mathcal{P}_{37}^0/x_3 \approx \mathcal{G}_{17}^4$ $\mathcal{P}_{37}^0/x_4 \approx \mathcal{G}_{17}^7$ $\mathcal{P}_{37}^0/x_5 \approx \mathcal{G}_{15}^4$ $\mathcal{P}_{37}^0/x_6 \approx \mathcal{G}_{17}^8$ $\mathcal{P}_{37}^0/x_7 \approx \mathcal{G}_{16}^1$ $\mathcal{P}_{37}^0/x_8 \approx \mathcal{G}_{17}^2$ $\mathcal{P}_{37}^0/x_9 \approx \mathcal{G}_{16}^2$
Subpolytopes	$\mathcal{P}_{37}^0 \setminus x_1 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{37}^0 \setminus x_2 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{37}^0 \setminus x_3 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{37}^0 \setminus x_4 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{37}^0 \setminus x_5 \approx \mathcal{N}(8, 5)$ $\mathcal{P}_{37}^0 \setminus x_6 \approx \mathcal{N}(8, 5)$ $\mathcal{P}_{37}^0 \setminus x_7 \approx \mathcal{N}(8, 5)$ $\mathcal{P}_{37}^0 \setminus x_8 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{37}^0 \setminus x_9 \approx \mathcal{C}(8, 5)$
Polytope	\mathcal{P}_{38}^0
Facets	12348 12349 12356 12359 12367 12378 12489 12568 12589 12678 13478 13479 13569 13679 14789 15678 15679 15789 23458 23459 23568 23678 24589 34568 34569 34678 34679 45678 45679 45789
UEs	12 13 17 18 19 23 28 34 36 48 49 56 58 59 67 78
MFs	145 146 246 247 257 269 279 357 389 689
Vertex Figures	$\mathcal{P}_{38}^0/x_1 \approx \mathcal{G}_{18}^3$ $\mathcal{P}_{38}^0/x_2 \approx \mathcal{G}_{15}^2$ $\mathcal{P}_{38}^0/x_3 \approx \mathcal{G}_{18}^5$ $\mathcal{P}_{38}^0/x_4 \approx \mathcal{G}_{16}^6$ $\mathcal{P}_{38}^0/x_5 \approx \mathcal{G}_{17}^7$ $\mathcal{P}_{38}^0/x_6 \approx \mathcal{G}_{16}^6$ $\mathcal{P}_{38}^0/x_7 \approx \mathcal{G}_{16}^1$ $\mathcal{P}_{38}^0/x_8 \approx \mathcal{G}_{18}^1$ $\mathcal{P}_{38}^0/x_9 \approx \mathcal{G}_{16}^6$
Subpolytopes	$\mathcal{P}_{38}^0 \setminus x_1 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{38}^0 \setminus x_2 \approx \mathcal{N}(8, 5)$ $\mathcal{P}_{38}^0 \setminus x_3 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{38}^0 \setminus x_4 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{38}^0 \setminus x_5 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{38}^0 \setminus x_6 \approx \mathcal{N}(8, 5)$ $\mathcal{P}_{38}^0 \setminus x_7 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{38}^0 \setminus x_8 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{38}^0 \setminus x_9 \approx \mathcal{C}(8, 5)$
Polytope	\mathcal{P}_{39}^0
Facets	12348 12349 12356 12359 12367 12378 12458 12459 12568 12678 13478 13479 13569 13679 14567 14569 14578 14679 15678 23489 23568 23589 23678 24589 34789 35689 36789 45678 45689 46789
UEs	12 13 14 15 16 17 23 28 38 39 48 49 56 58 67 68 78
MFs	189 246 247 257 269 279 345 346 357 579
Vertex Figures	$\mathcal{P}_{39}^0/x_1 \approx \mathcal{G}_{19}^2$ $\mathcal{P}_{39}^0/x_2 \approx \mathcal{G}_{15}^2$ $\mathcal{P}_{39}^0/x_3 \approx \mathcal{G}_{17}^4$ $\mathcal{P}_{39}^0/x_4 \approx \mathcal{G}_{16}^6$ $\mathcal{P}_{39}^0/x_5 \approx \mathcal{G}_{16}^2$ $\mathcal{P}_{39}^0/x_6 \approx \mathcal{G}_{17}^6$ $\mathcal{P}_{39}^0/x_7 \approx \mathcal{G}_{15}^1$ $\mathcal{P}_{39}^0/x_8 \approx \mathcal{G}_{19}^2$ $\mathcal{P}_{39}^0/x_9 \approx \mathcal{G}_{16}^7$
Subpolytopes	$\mathcal{P}_{39}^0 \setminus x_1 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{39}^0 \setminus x_2 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{39}^0 \setminus x_3 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{39}^0 \setminus x_4 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{39}^0 \setminus x_5 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{39}^0 \setminus x_6 \approx \mathcal{N}(8, 5)$ $\mathcal{P}_{39}^0 \setminus x_7 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{39}^0 \setminus x_8 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{39}^0 \setminus x_9 \approx \mathcal{C}(8, 5)$
Polytope	\mathcal{P}_{40}^0
Facets	12345 12348 12356 12369 12389 12458 12568 12689 13456 13469 13489 14569 14578 14579 14789 15678 15679 16789 23458 23568 23678 23679 23789 26789 34568 34678 34679 34789 45678 45679
UEs	14 15 16 18 19 23 28 34 36 38 45 48 56 67 68 69 78 79

MFs	127 137 246 247 249 257 259 357 359 589
Vertex Figures	$\mathcal{P}_{40}^0/x_1 \approx \mathcal{G}_{18}^3$ $\mathcal{P}_{40}^0/x_2 \approx \mathcal{G}_{14}^2$ $\mathcal{P}_{40}^0/x_3 \approx \mathcal{G}_{17}^4$ $\mathcal{P}_{40}^0/x_4 \approx \mathcal{G}_{17}^1$ $\mathcal{P}_{40}^0/x_5 \approx \mathcal{G}_{15}^2$ $\mathcal{P}_{40}^0/x_6 \approx \mathcal{G}_{19}^1$ $\mathcal{P}_{40}^0/x_7 \approx \mathcal{G}_{15}^2$ $\mathcal{P}_{40}^0/x_8 \approx \mathcal{G}_{19}^2$ $\mathcal{P}_{40}^0/x_9 \approx \mathcal{G}_{16}^2$
Subpolytopes	$\mathcal{P}_{40}^0 \setminus x_1 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{40}^0 \setminus x_2 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{40}^0 \setminus x_3 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{40}^0 \setminus x_4 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{40}^0 \setminus x_5 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{40}^0 \setminus x_6 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{40}^0 \setminus x_7 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{40}^0 \setminus x_8 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{40}^0 \setminus x_9 \approx \mathcal{C}(8, 5)$
Polytope	\mathcal{P}_{41}^0
Facets	12348 12349 12356 12359 12367 12378 12458 12459 12568 12678 13467 13469 13478 13569 14578 14579 14679 15678 15679 23489 23568 23589 23678 24589 34678 34689 35689 45789 46789 56789
UEs	12 13 14 15 16 17 23 28 36 38 48 49 58 59 67 68 78
MFs	189 246 247 257 269 279 345 357 379 456
Vertex Figures	$\mathcal{P}_{41}^0/x_1 \approx \mathcal{G}_{19}^3$ $\mathcal{P}_{41}^0/x_2 \approx \mathcal{G}_{15}^2$ $\mathcal{P}_{41}^0/x_3 \approx \mathcal{G}_{17}^4$ $\mathcal{P}_{41}^0/x_4 \approx \mathcal{G}_{16}^6$ $\mathcal{P}_{41}^0/x_5 \approx \mathcal{G}_{16}^6$ $\mathcal{P}_{41}^0/x_6 \approx \mathcal{G}_{17}^4$ $\mathcal{P}_{41}^0/x_7 \approx \mathcal{G}_{15}^2$ $\mathcal{P}_{41}^0/x_8 \approx \mathcal{G}_{19}^3$ $\mathcal{P}_{41}^0/x_9 \approx \mathcal{G}_{16}^7$
Subpolytopes	$\mathcal{P}_{41}^0 \setminus x_1 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{41}^0 \setminus x_2 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{41}^0 \setminus x_3 \approx \mathcal{N}(8, 5)$ $\mathcal{P}_{41}^0 \setminus x_4 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{41}^0 \setminus x_5 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{41}^0 \setminus x_6 \approx \mathcal{N}(8, 5)$ $\mathcal{P}_{41}^0 \setminus x_7 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{41}^0 \setminus x_8 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{41}^0 \setminus x_9 \approx \mathcal{C}(8, 5)$
Polytope	\mathcal{P}_{42}^0
Facets	12356 12357 12367 12457 12459 12479 12569 12679 13457 13458 13479 13489 13568 13679 13689 14589 15689 23568 23578 23678 24578 24589 24678 24679 24689 25689 34578 34678 34679 34689
UEs	13 15 19 25 26 27 36 37 38 47 48 49 58 68 69
MFs	128 146 178 234 239 359 456 567 579 789
Vertex Figures	$\mathcal{P}_{42}^0/x_1 \approx \mathcal{G}_{17}^7$ $\mathcal{P}_{42}^0/x_2 \approx \mathcal{G}_{17}^7$ $\mathcal{P}_{42}^0/x_3 \approx \mathcal{G}_{17}^5$ $\mathcal{P}_{42}^0/x_4 \approx \mathcal{G}_{17}^7$ $\mathcal{P}_{42}^0/x_5 \approx \mathcal{G}_{16}^6$ $\mathcal{P}_{42}^0/x_6 \approx \mathcal{G}_{17}^5$ $\mathcal{P}_{42}^0/x_7 \approx \mathcal{G}_{16}^6$ $\mathcal{P}_{42}^0/x_8 \approx \mathcal{G}_{17}^5$ $\mathcal{P}_{42}^0/x_9 \approx \mathcal{G}_{16}^6$
Subpolytopes	$\mathcal{P}_{42}^0 \setminus x_1 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{42}^0 \setminus x_2 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{42}^0 \setminus x_3 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{42}^0 \setminus x_4 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{42}^0 \setminus x_5 \approx \mathcal{N}(8, 5)$ $\mathcal{P}_{42}^0 \setminus x_6 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{42}^0 \setminus x_7 \approx \mathcal{N}(8, 5)$ $\mathcal{P}_{42}^0 \setminus x_8 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{42}^0 \setminus x_9 \approx \mathcal{N}(8, 5)$
Polytope	\mathcal{P}_{43}^0
Facets	12356 12357 12367 12456 12457 12467 13457 13458 13467 13469 13489 13569 13589 14569 14589 23569 23578 23589 23679 23789 24569 24578 24589 24678 24689 26789 34578 34678 34689 36789

UEs	13 14 15 25 26 27 35 36 37 38 39 45 46 48 69 89
MFs	128 129 168 178 179 234 479 567 568 579
Vertex Figures	$\mathcal{P}_{43}^0/x_1 \approx \mathcal{G}_{15}^2$ $\mathcal{P}_{43}^0/x_2 \approx \mathcal{G}_{17}^7$ $\mathcal{P}_{43}^0/x_3 \approx \mathcal{G}_{19}^2$ $\mathcal{P}_{43}^0/x_4 \approx \mathcal{G}_{18}^4$ $\mathcal{P}_{43}^0/x_5 \approx \mathcal{G}_{17}^4$ $\mathcal{P}_{43}^0/x_6 \approx \mathcal{G}_{17}^5$ $\mathcal{P}_{43}^0/x_7 \approx \mathcal{G}_{15}^4$ $\mathcal{P}_{43}^0/x_8 \approx \mathcal{G}_{16}^1$ $\mathcal{P}_{43}^0/x_9 \approx \mathcal{G}_{16}^2$
Subpolytopes	$\mathcal{P}_{43}^0 \setminus x_1 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{43}^0 \setminus x_2 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{43}^0 \setminus x_3 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{43}^0 \setminus x_4 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{43}^0 \setminus x_5 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{43}^0 \setminus x_6 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{43}^0 \setminus x_7 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{43}^0 \setminus x_8 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{43}^0 \setminus x_9 \approx \mathcal{N}(8, 5)$
Polytope	\mathcal{P}_{44}^0
Facets	12356 12359 12369 12456 12457 12467 12579 12679 13458 13459 13467 13468 13479 13568 13679 14568 14579 23568 23589 23689 24568 24578 24678 25789 26789 34589 34678 34789 36789 45789
UEs	13 14 15 16 25 26 36 38 39 45 47 48 58 68 79
MFs	128 178 189 234 237 249 357 469 567 569
Vertex Figures	$\mathcal{P}_{44}^0/x_1 \approx \mathcal{G}_{17}^1$ $\mathcal{P}_{44}^0/x_2 \approx \mathcal{G}_{16}^7$ $\mathcal{P}_{44}^0/x_3 \approx \mathcal{G}_{17}^3$ $\mathcal{P}_{44}^0/x_4 \approx \mathcal{G}_{17}^3$ $\mathcal{P}_{44}^0/x_5 \approx \mathcal{G}_{17}^4$ $\mathcal{P}_{44}^0/x_6 \approx \mathcal{G}_{17}^4$ $\mathcal{P}_{44}^0/x_7 \approx \mathcal{G}_{16}^7$ $\mathcal{P}_{44}^0/x_8 \approx \mathcal{G}_{17}^1$ $\mathcal{P}_{44}^0/x_9 \approx \mathcal{G}_{16}^7$
Subpolytopes	$\mathcal{P}_{44}^0 \setminus x_1 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{44}^0 \setminus x_2 \approx \mathcal{N}(8, 5)$ $\mathcal{P}_{44}^0 \setminus x_3 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{44}^0 \setminus x_4 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{44}^0 \setminus x_5 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{44}^0 \setminus x_6 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{44}^0 \setminus x_7 \approx \mathcal{N}(8, 5)$ $\mathcal{P}_{44}^0 \setminus x_8 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{44}^0 \setminus x_9 \approx \mathcal{N}(8, 5)$
Polytope	\mathcal{P}_{45}^0
Facets	12357 12359 12367 12369 12457 12459 12479 12679 13457 13458 13467 13468 13568 13569 14568 14569 14679 23578 23589 23678 23689 24578 24589 24789 26789 34578 34678 35689 45689 46789
UEs	13 14 15 16 27 29 35 36 38 45 47 48 58 68 69
MFs	128 178 189 234 246 256 349 379 567 579
Vertex Figures	$\mathcal{P}_{45}^0/x_1 \approx \mathcal{G}_{17}^2$ $\mathcal{P}_{45}^0/x_2 \approx \mathcal{G}_{16}^7$ $\mathcal{P}_{45}^0/x_3 \approx \mathcal{G}_{17}^6$ $\mathcal{P}_{45}^0/x_4 \approx \mathcal{G}_{17}^4$ $\mathcal{P}_{45}^0/x_5 \approx \mathcal{G}_{17}^6$ $\mathcal{P}_{45}^0/x_6 \approx \mathcal{G}_{17}^4$ $\mathcal{P}_{45}^0/x_7 \approx \mathcal{G}_{16}^7$ $\mathcal{P}_{45}^0/x_8 \approx \mathcal{G}_{17}^2$ $\mathcal{P}_{45}^0/x_9 \approx \mathcal{G}_{16}^7$
Subpolytopes	$\mathcal{P}_{45}^0 \setminus x_1 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{45}^0 \setminus x_2 \approx \mathcal{N}(8, 5)$ $\mathcal{P}_{45}^0 \setminus x_3 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{45}^0 \setminus x_4 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{45}^0 \setminus x_5 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{45}^0 \setminus x_6 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{45}^0 \setminus x_7 \approx \mathcal{N}(8, 5)$ $\mathcal{P}_{45}^0 \setminus x_8 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{45}^0 \setminus x_9 \approx \mathcal{N}(8, 5)$
Polytope	\mathcal{P}_{46}^0

Facets	12345 12349 12359 12459 13456 13467 13478 13489 13569 13679 13789 14567 14578 14589 15678 15689 16789 23458 23489 23568 23569 23678 23679 23789 24589 25689 26789 34568 34678 45678
UEs	13 14 15 19 23 29 34 36 38 39 45 48 56 58 67 68 78 89
MFs	126 127 128 246 247 257 357 469 479 579
Vertex Figures	$\mathcal{P}_{46}^0/x_1 \approx \mathcal{G}_{17}^2$ $\mathcal{P}_{46}^0/x_2 \approx \mathcal{G}_{14}^2$ $\mathcal{P}_{46}^0/x_3 \approx \mathcal{G}_{19}^1$ $\mathcal{P}_{46}^0/x_4 \approx \mathcal{G}_{16}^5$ $\mathcal{P}_{46}^0/x_5 \approx \mathcal{G}_{17}^2$ $\mathcal{P}_{46}^0/x_6 \approx \mathcal{G}_{17}^4$ $\mathcal{P}_{46}^0/x_7 \approx \mathcal{G}_{14}^2$ $\mathcal{P}_{46}^0/x_8 \approx \mathcal{G}_{19}^1$ $\mathcal{P}_{46}^0/x_9 \approx \mathcal{G}_{17}^4$
Subpolytopes	$\mathcal{P}_{46}^0 \setminus x_1 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{46}^0 \setminus x_2 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{46}^0 \setminus x_3 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{46}^0 \setminus x_4 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{46}^0 \setminus x_5 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{46}^0 \setminus x_6 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{46}^0 \setminus x_7 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{46}^0 \setminus x_8 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{46}^0 \setminus x_9 \approx \mathcal{C}(8, 5)$
Polytope	\mathcal{P}_{47}^0
Facets	12345 12348 12359 12367 12369 12378 12459 12489 12678 12689 13459 13467 13469 13478 14679 14789 16789 23458 23568 23569 23678 24589 25689 34568 34569 34678 45678 45679 45789 56789
UEs	12 13 14 19 23 28 34 36 45 48 49 59 67 68 69 78
MFs	156 157 158 246 247 257 279 357 379 389
Vertex Figures	$\mathcal{P}_{47}^0/x_1 \approx \mathcal{G}_{17}^2$ $\mathcal{P}_{47}^0/x_2 \approx \mathcal{G}_{16}^1$ $\mathcal{P}_{47}^0/x_3 \approx \mathcal{G}_{17}^3$ $\mathcal{P}_{47}^0/x_4 \approx \mathcal{G}_{18}^3$ $\mathcal{P}_{47}^0/x_5 \approx \mathcal{G}_{15}^3$ $\mathcal{P}_{47}^0/x_6 \approx \mathcal{G}_{18}^5$ $\mathcal{P}_{47}^0/x_7 \approx \mathcal{G}_{14}^2$ $\mathcal{P}_{47}^0/x_8 \approx \mathcal{G}_{18}^4$ $\mathcal{P}_{47}^0/x_9 \approx \mathcal{G}_{17}^4$
Subpolytopes	$\mathcal{P}_{47}^0 \setminus x_1 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{47}^0 \setminus x_2 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{47}^0 \setminus x_3 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{47}^0 \setminus x_4 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{47}^0 \setminus x_5 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{47}^0 \setminus x_6 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{47}^0 \setminus x_7 \approx \mathcal{N}(8, 5)$ $\mathcal{P}_{47}^0 \setminus x_8 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{47}^0 \setminus x_9 \approx \mathcal{C}(8, 5)$
Polytope	\mathcal{P}_{48}^0
Facets	12356 12359 12369 12569 13456 13459 13467 13478 13489 13679 13789 14567 14578 14589 15678 15689 16789 23458 23459 23489 23568 23678 23679 23789 24589 25689 26789 34568 34678 45678
UEs	13 15 16 19 23 29 34 36 38 39 45 48 56 58 67 68 78 89
MFs	124 127 128 246 247 257 357 469 479 579
Vertex Figures	$\mathcal{P}_{48}^0/x_1 \approx \mathcal{G}_{17}^1$ $\mathcal{P}_{48}^0/x_2 \approx \mathcal{G}_{14}^1$ $\mathcal{P}_{48}^0/x_3 \approx \mathcal{G}_{19}^2$ $\mathcal{P}_{48}^0/x_4 \approx \mathcal{G}_{15}^2$ $\mathcal{P}_{48}^0/x_5 \approx \mathcal{G}_{17}^2$ $\mathcal{P}_{48}^0/x_6 \approx \mathcal{G}_{18}^3$ $\mathcal{P}_{48}^0/x_7 \approx \mathcal{G}_{14}^2$ $\mathcal{P}_{48}^0/x_8 \approx \mathcal{G}_{19}^1$ $\mathcal{P}_{48}^0/x_9 \approx \mathcal{G}_{17}^3$
Subpolytopes	$\mathcal{P}_{48}^0 \setminus x_1 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{48}^0 \setminus x_2 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{48}^0 \setminus x_3 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{48}^0 \setminus x_4 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{48}^0 \setminus x_5 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{48}^0 \setminus x_6 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{48}^0 \setminus x_7 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{48}^0 \setminus x_8 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{48}^0 \setminus x_9 \approx \mathcal{C}(8, 5)$

Polytope	\mathcal{P}_{49}^0
Facets	12356 12359 12369 12458 12459 12489 12568 12678 12679 12789 13569 14567 14569 14578 14679 14789 15678 23458 23459 23489 23568 23678 23679 23789 34568 34569 34678 34679 34789 45678
UEs	12 15 16 19 23 28 29 36 39 45 48 49 56 67 78
MFs	134 137 138 246 247 257 357 579 589 689
Vertex Figures	$\mathcal{P}_{49}^0/x_1 \approx \mathcal{G}_{17}^1$ $\mathcal{P}_{49}^0/x_2 \approx \mathcal{G}_{17}^3$ $\mathcal{P}_{49}^0/x_3 \approx \mathcal{G}_{16}^1$ $\mathcal{P}_{49}^0/x_4 \approx \mathcal{G}_{17}^7$ $\mathcal{P}_{49}^0/x_5 \approx \mathcal{G}_{16}^1$ $\mathcal{P}_{49}^0/x_6 \approx \mathcal{G}_{18}^6$ $\mathcal{P}_{49}^0/x_7 \approx \mathcal{G}_{15}^4$ $\mathcal{P}_{49}^0/x_8 \approx \mathcal{G}_{17}^7$ $\mathcal{P}_{49}^0/x_9 \approx \mathcal{G}_{17}^4$
Subpolytopes	$\mathcal{P}_{49}^0 \setminus x_1 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{49}^0 \setminus x_2 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{49}^0 \setminus x_3 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{49}^0 \setminus x_4 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{49}^0 \setminus x_5 \approx \mathcal{N}(8, 5)$ $\mathcal{P}_{49}^0 \setminus x_6 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{49}^0 \setminus x_7 \approx \mathcal{N}(8, 5)$ $\mathcal{P}_{49}^0 \setminus x_8 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{49}^0 \setminus x_9 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$
Polytope	\mathcal{P}_{50}^0
Facets	12348 12349 12356 12359 12367 12378 12489 12569 12678 12689 13467 13469 13478 13569 14679 14789 16789 23458 23459 23568 23678 24589 25689 34568 34569 34678 45678 45679 45789 56789
UEs	12 13 16 19 23 28 34 36 48 49 56 59 67 68 69 78
MFs	145 157 158 246 247 257 279 357 379 389
Vertex Figures	$\mathcal{P}_{50}^0/x_1 \approx \mathcal{G}_{17}^1$ $\mathcal{P}_{50}^0/x_2 \approx \mathcal{G}_{16}^1$ $\mathcal{P}_{50}^0/x_3 \approx \mathcal{G}_{17}^5$ $\mathcal{P}_{50}^0/x_4 \approx \mathcal{G}_{17}^7$ $\mathcal{P}_{50}^0/x_5 \approx \mathcal{G}_{15}^3$ $\mathcal{P}_{50}^0/x_6 \approx \mathcal{G}_{19}^2$ $\mathcal{P}_{50}^0/x_7 \approx \mathcal{G}_{14}^2$ $\mathcal{P}_{50}^0/x_8 \approx \mathcal{G}_{18}^4$ $\mathcal{P}_{50}^0/x_9 \approx \mathcal{G}_{17}^4$
Subpolytopes	$\mathcal{P}_{50}^0 \setminus x_1 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{50}^0 \setminus x_2 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{50}^0 \setminus x_3 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{50}^0 \setminus x_4 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{50}^0 \setminus x_5 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{50}^0 \setminus x_6 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{50}^0 \setminus x_7 \approx \mathcal{N}(8, 5)$ $\mathcal{P}_{50}^0 \setminus x_8 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{50}^0 \setminus x_9 \approx \mathcal{C}(8, 5)$
Polytope	\mathcal{P}_{51}^0
Facets	12345 12348 12356 12369 12378 12379 12458 12568 12678 12679 13459 13478 13479 13569 14567 14569 14578 14679 15678 23458 23569 23589 23789 25689 26789 34589 34789 45678 45689 46789
UEs	12 13 14 15 16 17 23 28 39 45 48 56 58 69 78
MFs	189 246 247 249 257 346 357 367 368 579
Vertex Figures	$\mathcal{P}_{51}^0/x_1 \approx \mathcal{G}_{19}^2$ $\mathcal{P}_{51}^0/x_2 \approx \mathcal{G}_{16}^1$ $\mathcal{P}_{51}^0/x_3 \approx \mathcal{G}_{16}^1$ $\mathcal{P}_{51}^0/x_4 \approx \mathcal{G}_{16}^2$ $\mathcal{P}_{51}^0/x_5 \approx \mathcal{G}_{17}^2$ $\mathcal{P}_{51}^0/x_6 \approx \mathcal{G}_{16}^1$ $\mathcal{P}_{51}^0/x_7 \approx \mathcal{G}_{15}^4$ $\mathcal{P}_{51}^0/x_8 \approx \mathcal{G}_{18}^4$ $\mathcal{P}_{51}^0/x_9 \approx \mathcal{G}_{17}^8$

Subpolytopes	$\mathcal{P}_{51}^0 \setminus x_1 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{51}^0 \setminus x_2 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{51}^0 \setminus x_3 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{51}^0 \setminus x_4 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{51}^0 \setminus x_5 \approx \mathcal{N}(8, 5)$ $\mathcal{P}_{51}^0 \setminus x_6 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{51}^0 \setminus x_7 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{51}^0 \setminus x_8 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{51}^0 \setminus x_9 \approx \mathcal{C}(8, 5)$
Polytope	\mathcal{P}_{52}^0
Facets	12345 12348 12359 12367 12369 12378 12458 12568 12569 12678 13459 13478 13479 13679 14567 14569 14578 14679 15678 23458 23589 23679 23789 25689 26789 34589 34789 45678 45689 46789
UEs	12 13 14 15 16 17 23 28 39 45 48 58 67 69 78
MFs	189 246 247 249 257 346 356 357 368 579
Vertex Figures	$\mathcal{P}_{52}^0/x_1 \approx \mathcal{G}_{19}^4$ $\mathcal{P}_{52}^0/x_2 \approx \mathcal{G}_{16}^1$ $\mathcal{P}_{52}^0/x_3 \approx \mathcal{G}_{16}^1$ $\mathcal{P}_{52}^0/x_4 \approx \mathcal{G}_{16}^2$ $\mathcal{P}_{52}^0/x_5 \approx \mathcal{G}_{16}^2$ $\mathcal{P}_{52}^0/x_6 \approx \mathcal{G}_{16}^1$ $\mathcal{P}_{52}^0/x_7 \approx \mathcal{G}_{16}^1$ $\mathcal{P}_{52}^0/x_8 \approx \mathcal{G}_{18}^4$ $\mathcal{P}_{52}^0/x_9 \approx \mathcal{G}_{17}^8$
Subpolytopes	$\mathcal{P}_{52}^0 \setminus x_1 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{52}^0 \setminus x_2 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{52}^0 \setminus x_3 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{52}^0 \setminus x_4 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{52}^0 \setminus x_5 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{52}^0 \setminus x_6 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{52}^0 \setminus x_7 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{52}^0 \setminus x_8 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{52}^0 \setminus x_9 \approx \mathcal{C}(8, 5)$
Polytope	\mathcal{P}_{53}^0
Facets	12356 12359 12367 12378 12389 12568 12589 12678 13456 13459 13469 13679 13789 14569 15678 15679 15789 23458 23459 23489 23568 23678 24589 34568 34678 34679 34789 45678 45679 45789
UEs	13 15 16 19 23 28 34 36 38 39 45 49 56 58 59 67 78
MFs	124 147 148 246 247 257 269 279 357 689
Vertex Figures	$\mathcal{P}_{53}^0/x_1 \approx \mathcal{G}_{17}^2$ $\mathcal{P}_{53}^0/x_2 \approx \mathcal{G}_{14}^2$ $\mathcal{P}_{53}^0/x_3 \approx \mathcal{G}_{19}^2$ $\mathcal{P}_{53}^0/x_4 \approx \mathcal{G}_{15}^1$ $\mathcal{P}_{53}^0/x_5 \approx \mathcal{G}_{18}^3$ $\mathcal{P}_{53}^0/x_6 \approx \mathcal{G}_{17}^5$ $\mathcal{P}_{53}^0/x_7 \approx \mathcal{G}_{15}^4$ $\mathcal{P}_{53}^0/x_8 \approx \mathcal{G}_{18}^4$ $\mathcal{P}_{53}^0/x_9 \approx \mathcal{G}_{17}^6$
Subpolytopes	$\mathcal{P}_{53}^0 \setminus x_1 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{53}^0 \setminus x_2 \approx \mathcal{N}(8, 5)$ $\mathcal{P}_{53}^0 \setminus x_3 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{53}^0 \setminus x_4 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{53}^0 \setminus x_5 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{53}^0 \setminus x_6 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{53}^0 \setminus x_7 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{53}^0 \setminus x_8 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{53}^0 \setminus x_9 \approx \mathcal{C}(8, 5)$
Polytope	\mathcal{P}_{54}^0
Facets	12345 12348 12359 12378 12379 12458 12568 12569 12678 12679 13456 13469 13478 13479 13569 14567 14578 14679 15678 23458 23589 23789 25689 26789 34569 34589 34789 45678 45689 46789
UEs	12 13 14 15 16 17 28 34 39 45 48 56 58 69 78
MFs	189 236 246 247 249 257 357 367 368 579

Vertex Figures	$\mathcal{P}_{54}^0/x_1 \approx \mathcal{G}_{19}^3$ $\mathcal{P}_{54}^0/x_2 \approx \mathcal{G}_{15}^4$ $\mathcal{P}_{54}^0/x_3 \approx \mathcal{G}_{16}^1$ $\mathcal{P}_{54}^0/x_4 \approx \mathcal{G}_{17}^1$ $\mathcal{P}_{54}^0/x_5 \approx \mathcal{G}_{17}^1$ $\mathcal{P}_{54}^0/x_6 \approx \mathcal{G}_{16}^1$ $\mathcal{P}_{54}^0/x_7 \approx \mathcal{G}_{15}^4$ $\mathcal{P}_{54}^0/x_8 \approx \mathcal{G}_{18}^4$ $\mathcal{P}_{54}^0/x_9 \approx \mathcal{G}_{17}^8$
Subpolytopes	$\mathcal{P}_{54}^0 \setminus x_1 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{54}^0 \setminus x_2 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{54}^0 \setminus x_3 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{54}^0 \setminus x_4 \approx \mathcal{N}(8, 5)$ $\mathcal{P}_{54}^0 \setminus x_5 \approx \mathcal{N}(8, 5)$ $\mathcal{P}_{54}^0 \setminus x_6 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{54}^0 \setminus x_7 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{54}^0 \setminus x_8 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{54}^0 \setminus x_9 \approx \mathcal{C}(8, 5)$
Polytope	\mathcal{P}_{55}^0
Facets	12356 12357 12367 12456 12457 12467 13457 13459 13467 13469 13569 14568 14589 14689 15689 23569 23579 23678 23689 23789 24568 24578 24678 25689 25789 34579 34679 36789 45789 46789
UEs	14 15 16 25 26 27 36 37 39 45 46 47 59 68 69 89
MFs	128 129 138 178 179 234 249 348 358 567
Vertex Figures	$\mathcal{P}_{55}^0/x_1 \approx \mathcal{G}_{15}^2$ $\mathcal{P}_{55}^0/x_2 \approx \mathcal{G}_{16}^6$ $\mathcal{P}_{55}^0/x_3 \approx \mathcal{G}_{16}^1$ $\mathcal{P}_{55}^0/x_4 \approx \mathcal{G}_{17}^4$ $\mathcal{P}_{55}^0/x_5 \approx \mathcal{G}_{18}^5$ $\mathcal{P}_{55}^0/x_6 \approx \mathcal{G}_{19}^2$ $\mathcal{P}_{55}^0/x_7 \approx \mathcal{G}_{17}^7$ $\mathcal{P}_{55}^0/x_8 \approx \mathcal{G}_{15}^3$ $\mathcal{P}_{55}^0/x_9 \approx \mathcal{G}_{17}^4$
Subpolytopes	$\mathcal{P}_{55}^0 \setminus x_1 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{55}^0 \setminus x_2 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{55}^0 \setminus x_3 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{55}^0 \setminus x_4 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{55}^0 \setminus x_5 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{55}^0 \setminus x_6 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{55}^0 \setminus x_7 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{55}^0 \setminus x_8 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{55}^0 \setminus x_9 \approx \mathcal{N}(8, 5)$
Polytope	\mathcal{P}_{56}^0
Facets	12356 12357 12367 12456 12457 12467 13457 13458 13467 13469 13489 13569 13589 14568 14689 15689 23569 23578 23589 23678 23689 24568 24578 24678 25689 34578 34679 34789 36789 46789
UEs	13 14 15 16 25 26 35 36 37 38 39 46 47 48 58 68 69 89
MFs	128 129 178 179 234 249 279 459 567 579
Vertex Figures	$\mathcal{P}_{56}^0/x_1 \approx \mathcal{G}_{16}^4$ $\mathcal{P}_{56}^0/x_2 \approx \mathcal{G}_{15}^4$ $\mathcal{P}_{56}^0/x_3 \approx \mathcal{G}_{19}^2$ $\mathcal{P}_{56}^0/x_4 \approx \mathcal{G}_{17}^5$ $\mathcal{P}_{56}^0/x_5 \approx \mathcal{G}_{17}^5$ $\mathcal{P}_{56}^0/x_6 \approx \mathcal{G}_{19}^2$ $\mathcal{P}_{56}^0/x_7 \approx \mathcal{G}_{15}^4$ $\mathcal{P}_{56}^0/x_8 \approx \mathcal{G}_{18}^1$ $\mathcal{P}_{56}^0/x_9 \approx \mathcal{G}_{14}^3$
Subpolytopes	$\mathcal{P}_{56}^0 \setminus x_1 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{56}^0 \setminus x_2 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{56}^0 \setminus x_3 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{56}^0 \setminus x_4 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{56}^0 \setminus x_5 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{56}^0 \setminus x_6 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{56}^0 \setminus x_7 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{56}^0 \setminus x_8 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{56}^0 \setminus x_9 \approx \mathcal{N}(8, 5)$
Polytope	\mathcal{P}_{57}^0
Facets	12348 12349 12356 12359 12367 12378 12458 12459 12568 12678 13467 13469 13478 13569 14567 14569 14578 15678 23489 23568 23589 23678 24589 34678 34689 35689 45679 45789 46789 56789
UEs	12 13 14 15 16 23 28 36 38 48 49 56 58 59 67 68 78

MFs	179 189 246 247 257 269 279 345 357 379
Vertex Figures	$\mathcal{P}_{57}^0/x_1 \approx \mathcal{G}_{18}^2$ $\mathcal{P}_{57}^0/x_2 \approx \mathcal{G}_{15}^2$ $\mathcal{P}_{57}^0/x_3 \approx \mathcal{G}_{17}^4$ $\mathcal{P}_{57}^0/x_4 \approx \mathcal{G}_{17}^7$ $\mathcal{P}_{57}^0/x_5 \approx \mathcal{G}_{17}^5$ $\mathcal{P}_{57}^0/x_6 \approx \mathcal{G}_{18}^2$ $\mathcal{P}_{57}^0/x_7 \approx \mathcal{G}_{14}^2$ $\mathcal{P}_{57}^0/x_8 \approx \mathcal{G}_{19}^3$ $\mathcal{P}_{57}^0/x_9 \approx \mathcal{G}_{15}^4$
Subpolytopes	$\mathcal{P}_{57}^0 \setminus x_1 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{57}^0 \setminus x_2 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{57}^0 \setminus x_3 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{57}^0 \setminus x_4 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{57}^0 \setminus x_5 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{57}^0 \setminus x_6 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{57}^0 \setminus x_7 \approx \mathcal{N}(8, 5)$ $\mathcal{P}_{57}^0 \setminus x_8 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{57}^0 \setminus x_9 \approx \mathcal{C}(8, 5)$
Polytope	\mathcal{P}_{58}^0
Facets	12348 12349 12356 12359 12367 12378 12458 12459 12568 12678 13467 13469 13478 13569 14567 14569 14578 15678 23489 23568 23589 23678 24589 34679 34789 35689 36789 45678 45689 46789
UEs	12 13 14 15 16 23 28 36 38 39 48 49 56 58 67 68 78
MFs	179 189 246 247 257 269 279 345 357 579
Vertex Figures	$\mathcal{P}_{58}^0/x_1 \approx \mathcal{G}_{18}^2$ $\mathcal{P}_{58}^0/x_2 \approx \mathcal{G}_{15}^2$ $\mathcal{P}_{58}^0/x_3 \approx \mathcal{G}_{18}^1$ $\mathcal{P}_{58}^0/x_4 \approx \mathcal{G}_{17}^7$ $\mathcal{P}_{58}^0/x_5 \approx \mathcal{G}_{16}^2$ $\mathcal{P}_{58}^0/x_6 \approx \mathcal{G}_{18}^3$ $\mathcal{P}_{58}^0/x_7 \approx \mathcal{G}_{14}^1$ $\mathcal{P}_{58}^0/x_8 \approx \mathcal{G}_{19}^2$ $\mathcal{P}_{58}^0/x_9 \approx \mathcal{G}_{15}^4$
Subpolytopes	$\mathcal{P}_{58}^0 \setminus x_1 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{58}^0 \setminus x_2 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{58}^0 \setminus x_3 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{58}^0 \setminus x_4 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{58}^0 \setminus x_5 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{58}^0 \setminus x_6 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{58}^0 \setminus x_7 \approx \mathcal{N}(8, 5)$ $\mathcal{P}_{58}^0 \setminus x_8 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{58}^0 \setminus x_9 \approx \mathcal{C}(8, 5)$
Polytope	\mathcal{P}_{59}^0
Facets	12356 12359 12367 12378 12389 12568 12589 12678 13456 13459 13469 13679 13789 14567 14578 14589 14679 14789 15678 23458 23459 23489 23568 23678 24589 34568 34678 34679 34789 45678
UEs	13 15 16 17 18 19 23 28 34 36 38 39 45 48 49 58 67 78
MFs	124 246 247 257 269 279 357 569 579 689
Vertex Figures	$\mathcal{P}_{59}^0/x_1 \approx \mathcal{G}_{19}^2$ $\mathcal{P}_{59}^0/x_2 \approx \mathcal{G}_{14}^2$ $\mathcal{P}_{59}^0/x_3 \approx \mathcal{G}_{19}^2$ $\mathcal{P}_{59}^0/x_4 \approx \mathcal{G}_{17}^1$ $\mathcal{P}_{59}^0/x_5 \approx \mathcal{G}_{16}^1$ $\mathcal{P}_{59}^0/x_6 \approx \mathcal{G}_{16}^1$ $\mathcal{P}_{59}^0/x_7 \approx \mathcal{G}_{15}^1$ $\mathcal{P}_{59}^0/x_8 \approx \mathcal{G}_{19}^4$ $\mathcal{P}_{59}^0/x_9 \approx \mathcal{G}_{15}^2$
Subpolytopes	$\mathcal{P}_{59}^0 \setminus x_1 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{59}^0 \setminus x_2 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{59}^0 \setminus x_3 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{59}^0 \setminus x_4 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{59}^0 \setminus x_5 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{59}^0 \setminus x_6 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{59}^0 \setminus x_7 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{59}^0 \setminus x_8 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{59}^0 \setminus x_9 \approx \mathcal{C}(8, 5)$
Polytope	\mathcal{P}_{60}^0
Facets	12348 12349 12367 12369 12378 12458 12459 12568 12569 12678 13489 13679 13789 14567 14569 14578 14679 14789 15678 23458 23459 23568 23569 23678 34568 34569 34678 34679 34789 45678

UEs	12 14 16 17 18 19 23 34 36 38 39 45 48 49 56 67 78
MFs	135 246 247 257 279 289 357 579 589 689
Vertex Figures	$\mathcal{P}_{60}^0/x_1 \approx \mathcal{G}_{19}^2$ $\mathcal{P}_{60}^0/x_2 \approx \mathcal{G}_{15}^0$ $\mathcal{P}_{60}^0/x_3 \approx \mathcal{G}_{18}^4$ $\mathcal{P}_{60}^0/x_4 \approx \mathcal{G}_{18}^3$ $\mathcal{P}_{60}^0/x_5 \approx \mathcal{G}_{15}^4$ $\mathcal{P}_{60}^0/x_6 \approx \mathcal{G}_{18}^6$ $\mathcal{P}_{60}^0/x_7 \approx \mathcal{G}_{15}^1$ $\mathcal{P}_{60}^0/x_8 \approx \mathcal{G}_{17}^1$ $\mathcal{P}_{60}^0/x_9 \approx \mathcal{G}_{15}^2$
Subpolytopes	$\mathcal{P}_{60}^0 \setminus x_1 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{60}^0 \setminus x_2 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{60}^0 \setminus x_3 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{60}^0 \setminus x_4 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{60}^0 \setminus x_5 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{60}^0 \setminus x_6 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{60}^0 \setminus x_7 \approx \mathcal{N}(8, 5)$ $\mathcal{P}_{60}^0 \setminus x_8 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{60}^0 \setminus x_9 \approx \mathcal{C}(8, 5)$
Polytope	\mathcal{P}_{61}^0
Facets	12345 12348 12359 12378 12379 12458 12589 12789 13456 13469 13478 13479 13569 14567 14578 14679 15678 15689 16789 23458 23568 23569 23678 23679 25689 26789 34568 34678 34679 45678
UEs	13 14 15 17 18 19 23 28 34 36 56 58 67 68 69 78
MFs	126 246 247 249 257 357 389 459 489 579
Vertex Figures	$\mathcal{P}_{61}^0/x_1 \approx \mathcal{G}_{19}^3$ $\mathcal{P}_{61}^0/x_2 \approx \mathcal{G}_{15}^4$ $\mathcal{P}_{61}^0/x_3 \approx \mathcal{G}_{18}^4$ $\mathcal{P}_{61}^0/x_4 \approx \mathcal{G}_{15}^3$ $\mathcal{P}_{61}^0/x_5 \approx \mathcal{G}_{16}^1$ $\mathcal{P}_{61}^0/x_6 \approx \mathcal{G}_{18}^1$ $\mathcal{P}_{61}^0/x_7 \approx \mathcal{G}_{16}^2$ $\mathcal{P}_{61}^0/x_8 \approx \mathcal{G}_{18}^3$ $\mathcal{P}_{61}^0/x_9 \approx \mathcal{G}_{15}^4$
Subpolytopes	$\mathcal{P}_{61}^0 \setminus x_1 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{61}^0 \setminus x_2 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{61}^0 \setminus x_3 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{61}^0 \setminus x_4 \approx \mathcal{N}(8, 5)$ $\mathcal{P}_{61}^0 \setminus x_5 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{61}^0 \setminus x_6 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{61}^0 \setminus x_7 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{61}^0 \setminus x_8 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{61}^0 \setminus x_9 \approx \mathcal{C}(8, 5)$
Polytope	\mathcal{P}_{62}^0
Facets	12348 12349 12367 12369 12378 12489 12678 12689 13456 13459 13467 13478 13569 14567 14579 14789 15678 15689 15789 23458 23459 23568 23569 23678 24589 25689 34568 34678 45678 45789
UEs	13 14 16 17 18 19 23 28 34 36 45 48 56 58 59 68 78
MFs	125 246 247 257 279 357 379 389 469 679
Vertex Figures	$\mathcal{P}_{62}^0/x_1 \approx \mathcal{G}_{19}^3$ $\mathcal{P}_{62}^0/x_2 \approx \mathcal{G}_{15}^4$ $\mathcal{P}_{62}^0/x_3 \approx \mathcal{G}_{17}^5$ $\mathcal{P}_{62}^0/x_4 \approx \mathcal{G}_{17}^5$ $\mathcal{P}_{62}^0/x_5 \approx \mathcal{G}_{17}^5$ $\mathcal{P}_{62}^0/x_6 \approx \mathcal{G}_{17}^5$ $\mathcal{P}_{62}^0/x_7 \approx \mathcal{G}_{14}^2$ $\mathcal{P}_{62}^0/x_8 \approx \mathcal{G}_{19}^3$ $\mathcal{P}_{62}^0/x_9 \approx \mathcal{G}_{15}^4$
Subpolytopes	$\mathcal{P}_{62}^0 \setminus x_1 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{62}^0 \setminus x_2 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{62}^0 \setminus x_3 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{62}^0 \setminus x_4 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{62}^0 \setminus x_5 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{62}^0 \setminus x_6 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{62}^0 \setminus x_7 \approx \mathcal{N}(8, 5)$ $\mathcal{P}_{62}^0 \setminus x_8 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{62}^0 \setminus x_9 \approx \mathcal{C}(8, 5)$
Polytope	\mathcal{P}_{63}^0

Facets	12345 12348 12356 12367 12378 12459 12489 12569 12678 12689 13456 13467 13478 14567 14579 14789 15679 16789 23458 23569 23589 23678 23689 24589 34568 34678 35689 45678 45789 56789
UEs	12 14 16 17 23 28 36 38 45 48 56 59 67 68 78 89
MFs	139 158 246 247 257 279 349 357 379 469
Vertex Figures	$\mathcal{P}_{63}^0/x_1 \approx \mathcal{G}_{18}^4$ $\mathcal{P}_{63}^0/x_2 \approx \mathcal{G}_{16}^1$ $\mathcal{P}_{63}^0/x_3 \approx \mathcal{G}_{16}^1$ $\mathcal{P}_{63}^0/x_4 \approx \mathcal{G}_{16}^6$ $\mathcal{P}_{63}^0/x_5 \approx \mathcal{G}_{17}^7$ $\mathcal{P}_{63}^0/x_6 \approx \mathcal{G}_{18}^1$ $\mathcal{P}_{63}^0/x_7 \approx \mathcal{G}_{15}^2$ $\mathcal{P}_{63}^0/x_8 \approx \mathcal{G}_{19}^3$ $\mathcal{P}_{63}^0/x_9 \approx \mathcal{G}_{15}^4$
Subpolytopes	$\mathcal{P}_{63}^0 \setminus x_1 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{63}^0 \setminus x_2 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{63}^0 \setminus x_3 \approx \mathcal{N}(8, 5)$ $\mathcal{P}_{63}^0 \setminus x_4 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{63}^0 \setminus x_5 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{63}^0 \setminus x_6 \approx \mathcal{N}(8, 5)$ $\mathcal{P}_{63}^0 \setminus x_7 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{63}^0 \setminus x_8 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{63}^0 \setminus x_9 \approx \mathcal{C}(8, 5)$
Polytope	\mathcal{P}_{64}^0
Facets	12348 12349 12356 12359 12367 12378 12458 12459 12568 12678 13467 13469 13478 13569 14589 14679 14789 15689 16789 23458 23459 23568 23678 34568 34569 34678 45678 45679 45789 56789
UEs	12 13 14 16 18 19 23 34 36 45 48 49 56 58 59 67 68 78
MFs	157 246 247 257 269 279 289 357 379 389
Vertex Figures	$\mathcal{P}_{64}^0/x_1 \approx \mathcal{G}_{19}^3$ $\mathcal{P}_{64}^0/x_2 \approx \mathcal{G}_{14}^2$ $\mathcal{P}_{64}^0/x_3 \approx \mathcal{G}_{17}^5$ $\mathcal{P}_{64}^0/x_4 \approx \mathcal{G}_{18}^3$ $\mathcal{P}_{64}^0/x_5 \approx \mathcal{G}_{17}^2$ $\mathcal{P}_{64}^0/x_6 \approx \mathcal{G}_{18}^1$ $\mathcal{P}_{64}^0/x_7 \approx \mathcal{G}_{14}^2$ $\mathcal{P}_{64}^0/x_8 \approx \mathcal{G}_{18}^3$ $\mathcal{P}_{64}^0/x_9 \approx \mathcal{G}_{15}^2$
Subpolytopes	$\mathcal{P}_{64}^0 \setminus x_1 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{64}^0 \setminus x_2 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{64}^0 \setminus x_3 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{64}^0 \setminus x_4 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{64}^0 \setminus x_5 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{64}^0 \setminus x_6 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{64}^0 \setminus x_7 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{64}^0 \setminus x_8 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{64}^0 \setminus x_9 \approx \mathcal{C}(8, 5)$
Polytope	\mathcal{P}_{65}^0
Facets	12356 12359 12369 12458 12459 12489 12568 12689 13456 13459 13467 13478 13489 13679 13789 14567 14578 15678 16789 23458 23459 23489 23568 23678 23679 23789 26789 34568 34678 45678
UEs	13 14 15 16 18 19 23 28 29 34 36 38 39 45 48 67 68 78
MFs	127 246 247 257 357 469 479 569 579 589
Vertex Figures	$\mathcal{P}_{65}^0/x_1 \approx \mathcal{G}_{19}^3$ $\mathcal{P}_{65}^0/x_2 \approx \mathcal{G}_{16}^1$ $\mathcal{P}_{65}^0/x_3 \approx \mathcal{G}_{19}^2$ $\mathcal{P}_{65}^0/x_4 \approx \mathcal{G}_{16}^4$ $\mathcal{P}_{65}^0/x_5 \approx \mathcal{G}_{15}^3$ $\mathcal{P}_{65}^0/x_6 \approx \mathcal{G}_{17}^5$ $\mathcal{P}_{65}^0/x_7 \approx \mathcal{G}_{14}^2$ $\mathcal{P}_{65}^0/x_8 \approx \mathcal{G}_{19}^3$ $\mathcal{P}_{65}^0/x_9 \approx \mathcal{G}_{15}^2$
Subpolytopes	$\mathcal{P}_{65}^0 \setminus x_1 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{65}^0 \setminus x_2 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{65}^0 \setminus x_3 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{65}^0 \setminus x_4 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{65}^0 \setminus x_5 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{65}^0 \setminus x_6 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{65}^0 \setminus x_7 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{65}^0 \setminus x_8 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{65}^0 \setminus x_9 \approx \mathcal{C}(8, 5)$

Polytope	\mathcal{P}_{66}^0
Facets	12345 12349 12359 12458 12489 12568 12569 12689 13456 13467 13478 13489 13569 13679 13789 14567 14578 15678 16789 23458 23489 23568 23569 23678 23679 23789 26789 34568 34678 45678
UEs	13 14 15 16 18 19 23 28 29 34 36 38 39 48 56 67 68 78
MFs	127 246 247 257 357 459 469 479 579 589
Vertex Figures	$\mathcal{P}_{66}^0/x_1 \approx \mathcal{G}_{19}^2$ $\mathcal{P}_{66}^0/x_2 \approx \mathcal{G}_{16}^1$ $\mathcal{P}_{66}^0/x_3 \approx \mathcal{G}_{19}^1$ $\mathcal{P}_{66}^0/x_4 \approx \mathcal{G}_{15}^2$ $\mathcal{P}_{66}^0/x_5 \approx \mathcal{G}_{15}^3$ $\mathcal{P}_{66}^0/x_6 \approx \mathcal{G}_{18}^2$ $\mathcal{P}_{66}^0/x_7 \approx \mathcal{G}_{14}^2$ $\mathcal{P}_{66}^0/x_8 \approx \mathcal{G}_{19}^3$ $\mathcal{P}_{66}^0/x_9 \approx \mathcal{G}_{15}^1$
Subpolytopes	$\mathcal{P}_{66}^0 \setminus x_1 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{66}^0 \setminus x_2 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{66}^0 \setminus x_3 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{66}^0 \setminus x_4 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{66}^0 \setminus x_5 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{66}^0 \setminus x_6 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{66}^0 \setminus x_7 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{66}^0 \setminus x_8 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{66}^0 \setminus x_9 \approx \mathcal{C}(8, 5)$
Polytope	\mathcal{P}_{67}^0
Facets	12345 12348 12359 12367 12369 12378 12458 12568 12569 12678 13459 13478 13479 13679 14578 14579 15689 15789 16789 23458 23568 23569 23678 34568 34569 34678 34679 45678 45679 56789
UEs	12 13 15 17 18 19 23 34 36 45 56 58 59 67 68 69 78
MFs	146 246 247 249 257 279 289 357 389 489
Vertex Figures	$\mathcal{P}_{67}^0/x_1 \approx \mathcal{G}_{19}^4$ $\mathcal{P}_{67}^0/x_2 \approx \mathcal{G}_{14}^1$ $\mathcal{P}_{67}^0/x_3 \approx \mathcal{G}_{18}^6$ $\mathcal{P}_{67}^0/x_4 \approx \mathcal{G}_{15}^4$ $\mathcal{P}_{67}^0/x_5 \approx \mathcal{G}_{18}^3$ $\mathcal{P}_{67}^0/x_6 \approx \mathcal{G}_{18}^3$ $\mathcal{P}_{67}^0/x_7 \approx \mathcal{G}_{16}^2$ $\mathcal{P}_{67}^0/x_8 \approx \mathcal{G}_{17}^2$ $\mathcal{P}_{67}^0/x_9 \approx \mathcal{G}_{15}^1$
Subpolytopes	$\mathcal{P}_{67}^0 \setminus x_1 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{67}^0 \setminus x_2 \approx \mathcal{N}(8, 5)$ $\mathcal{P}_{67}^0 \setminus x_3 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{67}^0 \setminus x_4 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{67}^0 \setminus x_5 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{67}^0 \setminus x_6 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{67}^0 \setminus x_7 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{67}^0 \setminus x_8 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{67}^0 \setminus x_9 \approx \mathcal{C}(8, 5)$
Polytope	\mathcal{P}_{68}^0
Facets	12345 12348 12359 12367 12369 12378 12458 12568 12569 12678 13456 13467 13478 13569 14567 14578 15678 23458 23589 23679 23789 25689 26789 34569 34589 34679 34789 45678 45689 46789
UEs	12 13 15 16 23 28 34 39 45 48 56 58 67 69 78
MFs	149 179 189 246 247 249 257 357 368 579
Vertex Figures	$\mathcal{P}_{68}^0/x_1 \approx \mathcal{G}_{17}^1$ $\mathcal{P}_{68}^0/x_2 \approx \mathcal{G}_{16}^1$ $\mathcal{P}_{68}^0/x_3 \approx \mathcal{G}_{18}^4$ $\mathcal{P}_{68}^0/x_4 \approx \mathcal{G}_{16}^1$ $\mathcal{P}_{68}^0/x_5 \approx \mathcal{G}_{17}^1$ $\mathcal{P}_{68}^0/x_6 \approx \mathcal{G}_{18}^6$ $\mathcal{P}_{68}^0/x_7 \approx \mathcal{G}_{15}^4$ $\mathcal{P}_{68}^0/x_8 \approx \mathcal{G}_{18}^4$ $\mathcal{P}_{68}^0/x_9 \approx \mathcal{G}_{15}^4$

Subpolytopes	$\mathcal{P}_{68}^0 \setminus x_1 \approx \mathcal{N}(8, 5)$ $\mathcal{P}_{68}^0 \setminus x_2 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{68}^0 \setminus x_3 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{68}^0 \setminus x_4 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{68}^0 \setminus x_5 \approx \mathcal{N}(8, 5)$ $\mathcal{P}_{68}^0 \setminus x_6 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{68}^0 \setminus x_7 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{68}^0 \setminus x_8 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{68}^0 \setminus x_9 \approx \mathcal{C}(8, 5)$
Polytope	\mathcal{P}_{69}^0
Facets	12345 12348 12359 12367 12369 12378 12458 12589 12679 12789 13456 13467 13478 13569 14569 14578 14579 14679 15789 23458 23568 23569 23678 25689 26789 34568 34678 45678 45679 56789
UEs	12 13 14 15 17 19 23 28 36 45 56 58 59 67 69 78
MFs	168 246 247 249 257 349 357 379 389 489
Vertex Figures	$\mathcal{P}_{69}^0/x_1 \approx \mathcal{G}_{19}^2$ $\mathcal{P}_{69}^0/x_2 \approx \mathcal{G}_{16}^1$ $\mathcal{P}_{69}^0/x_3 \approx \mathcal{G}_{16}^1$ $\mathcal{P}_{69}^0/x_4 \approx \mathcal{G}_{15}^3$ $\mathcal{P}_{69}^0/x_5 \approx \mathcal{G}_{18}^3$ $\mathcal{P}_{69}^0/x_6 \approx \mathcal{G}_{18}^6$ $\mathcal{P}_{69}^0/x_7 \approx \mathcal{G}_{16}^6$ $\mathcal{P}_{69}^0/x_8 \approx \mathcal{G}_{17}^7$ $\mathcal{P}_{69}^0/x_9 \approx \mathcal{G}_{15}^1$
Subpolytopes	$\mathcal{P}_{69}^0 \setminus x_1 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{69}^0 \setminus x_2 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{69}^0 \setminus x_3 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{69}^0 \setminus x_4 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{69}^0 \setminus x_5 \approx \mathcal{N}(8, 5)$ $\mathcal{P}_{69}^0 \setminus x_6 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{69}^0 \setminus x_7 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{69}^0 \setminus x_8 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{69}^0 \setminus x_9 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$
Polytope	\mathcal{P}_{70}^0
Facets	12345 12348 12359 12367 12369 12378 12458 12568 12569 12678 13456 13467 13478 13569 14567 14578 15678 23458 23589 23678 23689 25689 34569 34589 34678 34689 45679 45789 46789 56789
UEs	12 13 15 16 23 28 34 36 38 45 48 56 58 59 67 68 69 78
MFs	149 179 189 246 247 249 257 279 357 379
Vertex Figures	$\mathcal{P}_{70}^0/x_1 \approx \mathcal{G}_{17}^1$ $\mathcal{P}_{70}^0/x_2 \approx \mathcal{G}_{15}^1$ $\mathcal{P}_{70}^0/x_3 \approx \mathcal{G}_{18}^3$ $\mathcal{P}_{70}^0/x_4 \approx \mathcal{G}_{16}^1$ $\mathcal{P}_{70}^0/x_5 \approx \mathcal{G}_{18}^1$ $\mathcal{P}_{70}^0/x_6 \approx \mathcal{G}_{19}^2$ $\mathcal{P}_{70}^0/x_7 \approx \mathcal{G}_{14}^2$ $\mathcal{P}_{70}^0/x_8 \approx \mathcal{G}_{19}^2$ $\mathcal{P}_{70}^0/x_9 \approx \mathcal{G}_{14}^2$
Subpolytopes	$\mathcal{P}_{70}^0 \setminus x_1 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{70}^0 \setminus x_2 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{70}^0 \setminus x_3 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{70}^0 \setminus x_4 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{70}^0 \setminus x_5 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{70}^0 \setminus x_6 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{70}^0 \setminus x_7 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{70}^0 \setminus x_8 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{70}^0 \setminus x_9 \approx \mathcal{C}(8, 5)$
Polytope	\mathcal{P}_{71}^0
Facets	12356 12359 12369 12568 12589 12678 12679 12789 13456 13459 13467 13478 13489 13679 13789 14567 14578 14589 15678 23458 23459 23489 23568 23678 23679 23789 24589 34568 34678 45678
UEs	13 15 16 17 18 19 23 28 29 34 36 38 39 45 48 58 67 78
MFs	124 246 247 257 357 469 479 569 579 689

Vertex Figures	$\mathcal{P}_{71}^0/x_1 \approx \mathcal{G}_{19}^2$ $\mathcal{P}_{71}^0/x_2 \approx \mathcal{G}_{16}^1$ $\mathcal{P}_{71}^0/x_3 \approx \mathcal{G}_{19}^2$ $\mathcal{P}_{71}^0/x_4 \approx \mathcal{G}_{15}^2$ $\mathcal{P}_{71}^0/x_5 \approx \mathcal{G}_{16}^1$ $\mathcal{P}_{71}^0/x_6 \approx \mathcal{G}_{16}^1$ $\mathcal{P}_{71}^0/x_7 \approx \mathcal{G}_{15}^2$ $\mathcal{P}_{71}^0/x_8 \approx \mathcal{G}_{19}^2$ $\mathcal{P}_{71}^0/x_9 \approx \mathcal{G}_{15}^2$
Subpolytopes	$\mathcal{P}_{71}^0 \setminus x_1 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{71}^0 \setminus x_2 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{71}^0 \setminus x_3 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{71}^0 \setminus x_4 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{71}^0 \setminus x_5 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{71}^0 \setminus x_6 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{71}^0 \setminus x_7 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{71}^0 \setminus x_8 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{71}^0 \setminus x_9 \approx \mathcal{C}(8, 5)$
Polytope	\mathcal{P}_{72}^0
Facets	12345 12348 12356 12369 12378 12379 12458 12568 12678 12679 13456 13467 13478 13679 14567 14578 15678 23458 23569 23589 23789 25689 26789 34569 34589 34679 34789 45678 45689 46789
UEs	12 13 16 17 23 28 34 39 45 48 56 58 67 69 78
MFs	149 159 189 246 247 249 257 357 368 579
Vertex Figures	$\mathcal{P}_{72}^0/x_1 \approx \mathcal{G}_{17}^1$ $\mathcal{P}_{72}^0/x_2 \approx \mathcal{G}_{16}^1$ $\mathcal{P}_{72}^0/x_3 \approx \mathcal{G}_{18}^6$ $\mathcal{P}_{72}^0/x_4 \approx \mathcal{G}_{16}^1$ $\mathcal{P}_{72}^0/x_5 \approx \mathcal{G}_{16}^1$ $\mathcal{P}_{72}^0/x_6 \approx \mathcal{G}_{18}^6$ $\mathcal{P}_{72}^0/x_7 \approx \mathcal{G}_{16}^1$ $\mathcal{P}_{72}^0/x_8 \approx \mathcal{G}_{18}^4$ $\mathcal{P}_{72}^0/x_9 \approx \mathcal{G}_{15}^4$
Subpolytopes	$\mathcal{P}_{72}^0 \setminus x_1 \approx \mathcal{N}(8, 5)$ $\mathcal{P}_{72}^0 \setminus x_2 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{72}^0 \setminus x_3 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{72}^0 \setminus x_4 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{72}^0 \setminus x_5 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{72}^0 \setminus x_6 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{72}^0 \setminus x_7 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{72}^0 \setminus x_8 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{72}^0 \setminus x_9 \approx \mathcal{C}(8, 5)$
Polytope	\mathcal{P}_{73}^0
Facets	12345 12348 12356 12369 12378 12379 12458 12569 12589 12789 13456 13467 13478 13679 14569 14578 14579 14679 15789 23458 23568 23678 23679 25689 26789 34568 34678 45678 45679 56789
UEs	12 13 14 15 17 19 23 28 36 45 56 58 67 69 78 79
MFs	168 246 247 249 257 349 357 359 389 489
Vertex Figures	$\mathcal{P}_{73}^0/x_1 \approx \mathcal{G}_{19}^4$ $\mathcal{P}_{73}^0/x_2 \approx \mathcal{G}_{16}^1$ $\mathcal{P}_{73}^0/x_3 \approx \mathcal{G}_{16}^1$ $\mathcal{P}_{73}^0/x_4 \approx \mathcal{G}_{15}^3$ $\mathcal{P}_{73}^0/x_5 \approx \mathcal{G}_{17}^5$ $\mathcal{P}_{73}^0/x_6 \approx \mathcal{G}_{18}^6$ $\mathcal{P}_{73}^0/x_7 \approx \mathcal{G}_{17}^3$ $\mathcal{P}_{73}^0/x_8 \approx \mathcal{G}_{17}^7$ $\mathcal{P}_{73}^0/x_9 \approx \mathcal{G}_{15}^1$
Subpolytopes	$\mathcal{P}_{73}^0 \setminus x_1 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{73}^0 \setminus x_2 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{73}^0 \setminus x_3 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{73}^0 \setminus x_4 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{73}^0 \setminus x_5 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{73}^0 \setminus x_6 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{73}^0 \setminus x_7 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{73}^0 \setminus x_8 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{73}^0 \setminus x_9 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$
Polytope	\mathcal{P}_{74}^0
Facets	12345 12348 12356 12367 12378 12458 12568 12678 13459 13467 13469 13478 13569 14567 14569 14578 15678 23459 23489 23568 23589 23678 24589 34679 34789 35689 36789 45678 45689 46789
UEs	13 14 15 16 23 28 34 36 38 39 45 48 49 56 58 67 68 78

MFs	129 179 189 246 247 257 269 279 357 579
Vertex Figures	$\mathcal{P}_{74}^0/x_1 \approx \mathcal{G}_{17}^2$ $\mathcal{P}_{74}^0/x_2 \approx \mathcal{G}_{14}^2$ $\mathcal{P}_{74}^0/x_3 \approx \mathcal{G}_{19}^2$ $\mathcal{P}_{74}^0/x_4 \approx \mathcal{G}_{18}^3$ $\mathcal{P}_{74}^0/x_5 \approx \mathcal{G}_{17}^2$ $\mathcal{P}_{74}^0/x_6 \approx \mathcal{G}_{18}^3$ $\mathcal{P}_{74}^0/x_7 \approx \mathcal{G}_{14}^1$ $\mathcal{P}_{74}^0/x_8 \approx \mathcal{G}_{19}^2$ $\mathcal{P}_{74}^0/x_9 \approx \mathcal{G}_{14}^1$
Subpolytopes	$\mathcal{P}_{74}^0 \setminus x_1 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{74}^0 \setminus x_2 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{74}^0 \setminus x_3 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{74}^0 \setminus x_4 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{74}^0 \setminus x_5 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{74}^0 \setminus x_6 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{74}^0 \setminus x_7 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{74}^0 \setminus x_8 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{74}^0 \setminus x_9 \approx \mathcal{C}(8, 5)$
Polytope	\mathcal{P}_{75}^0
Facets	12345 12348 12356 12367 12378 12458 12568 12678 13459 13467 13469 13478 13569 14567 14569 14578 15678 23458 23569 23589 23679 23789 25689 26789 34589 34679 34789 45678 45689 46789
UEs	13 14 15 16 23 28 34 39 45 48 56 58 67 69 78
MFs	129 179 189 246 247 249 257 357 368 579
Vertex Figures	$\mathcal{P}_{75}^0/x_1 \approx \mathcal{G}_{17}^2$ $\mathcal{P}_{75}^0/x_2 \approx \mathcal{G}_{15}^4$ $\mathcal{P}_{75}^0/x_3 \approx \mathcal{G}_{18}^4$ $\mathcal{P}_{75}^0/x_4 \approx \mathcal{G}_{17}^2$ $\mathcal{P}_{75}^0/x_5 \approx \mathcal{G}_{17}^2$ $\mathcal{P}_{75}^0/x_6 \approx \mathcal{G}_{18}^4$ $\mathcal{P}_{75}^0/x_7 \approx \mathcal{G}_{15}^4$ $\mathcal{P}_{75}^0/x_8 \approx \mathcal{G}_{18}^4$ $\mathcal{P}_{75}^0/x_9 \approx \mathcal{G}_{15}^4$
Subpolytopes	$\mathcal{P}_{75}^0 \setminus x_1 \approx \mathcal{N}(8, 5)$ $\mathcal{P}_{75}^0 \setminus x_2 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{75}^0 \setminus x_3 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{75}^0 \setminus x_4 \approx \mathcal{N}(8, 5)$ $\mathcal{P}_{75}^0 \setminus x_5 \approx \mathcal{N}(8, 5)$ $\mathcal{P}_{75}^0 \setminus x_6 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{75}^0 \setminus x_7 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{75}^0 \setminus x_8 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{75}^0 \setminus x_9 \approx \mathcal{C}(8, 5)$
Polytope	\mathcal{P}_{76}^0
Facets	12345 12348 12356 12367 12378 12458 12568 12678 13459 13467 13469 13478 13569 14567 14569 14578 15678 23459 23489 23568 23589 23678 24589 34678 34689 35689 45679 45789 46789 56789
UEs	13 14 15 16 23 28 34 36 38 45 48 49 56 58 59 67 68 78
MFs	129 179 189 246 247 257 269 279 357 379
Vertex Figures	$\mathcal{P}_{76}^0/x_1 \approx \mathcal{G}_{17}^2$ $\mathcal{P}_{76}^0/x_2 \approx \mathcal{G}_{14}^2$ $\mathcal{P}_{76}^0/x_3 \approx \mathcal{G}_{18}^2$ $\mathcal{P}_{76}^0/x_4 \approx \mathcal{G}_{18}^3$ $\mathcal{P}_{76}^0/x_5 \approx \mathcal{G}_{18}^3$ $\mathcal{P}_{76}^0/x_6 \approx \mathcal{G}_{18}^2$ $\mathcal{P}_{76}^0/x_7 \approx \mathcal{G}_{14}^2$ $\mathcal{P}_{76}^0/x_8 \approx \mathcal{G}_{19}^3$ $\mathcal{P}_{76}^0/x_9 \approx \mathcal{G}_{14}^1$
Subpolytopes	$\mathcal{P}_{76}^0 \setminus x_1 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{76}^0 \setminus x_2 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{76}^0 \setminus x_3 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{76}^0 \setminus x_4 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{76}^0 \setminus x_5 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{76}^0 \setminus x_6 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{76}^0 \setminus x_7 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{76}^0 \setminus x_8 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{76}^0 \setminus x_9 \approx \mathcal{C}(8, 5)$
Polytope	\mathcal{P}_{77}^0
Facets	12356 12359 12367 12378 12389 12568 12589 12678 13467 13469 13479 13569 13789 14567 14569 14578 14589 14789 15678 23458 23459 23489 23568 23678 24589 34568 34569 34678 34789 45678

UEs	13 15 16 17 18 19 23 28 34 36 38 39 45 48 49 56 58 78
MFs	124 246 247 257 269 279 357 579 679 689
Vertex Figures	$\mathcal{P}_{77}^0/x_1 \approx \mathcal{G}_{19}^4$ $\mathcal{P}_{77}^0/x_2 \approx \mathcal{G}_{14}^2$ $\mathcal{P}_{77}^0/x_3 \approx \mathcal{G}_{19}^2$ $\mathcal{P}_{77}^0/x_4 \approx \mathcal{G}_{17}^1$ $\mathcal{P}_{77}^0/x_5 \approx \mathcal{G}_{17}^1$ $\mathcal{P}_{77}^0/x_6 \approx \mathcal{G}_{16}^1$ $\mathcal{P}_{77}^0/x_7 \approx \mathcal{G}_{14}^1$ $\mathcal{P}_{77}^0/x_8 \approx \mathcal{G}_{19}^4$ $\mathcal{P}_{77}^0/x_9 \approx \mathcal{G}_{15}^1$
Subpolytopes	$\mathcal{P}_{77}^0 \setminus x_1 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{77}^0 \setminus x_2 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{77}^0 \setminus x_3 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{77}^0 \setminus x_4 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{77}^0 \setminus x_5 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{77}^0 \setminus x_6 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{77}^0 \setminus x_7 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{77}^0 \setminus x_8 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{77}^0 \setminus x_9 \approx \mathcal{C}(8, 5)$
Polytope	\mathcal{P}_{78}^0
Facets	12357 12359 12379 12456 12457 12467 12569 12679 13457 13458 13468 13469 13479 13568 13569 14568 14679 23568 23569 23578 23689 23789 24568 24578 24678 26789 34578 34678 34679 36789
UEs	13 14 15 16 25 26 27 35 36 37 38 39 46 47 68 69
MFs	128 178 189 234 249 459 489 567 579 589
Vertex Figures	$\mathcal{P}_{78}^0/x_1 \approx \mathcal{G}_{17}^1$ $\mathcal{P}_{78}^0/x_2 \approx \mathcal{G}_{17}^7$ $\mathcal{P}_{78}^0/x_3 \approx \mathcal{G}_{19}^2$ $\mathcal{P}_{78}^0/x_4 \approx \mathcal{G}_{16}^1$ $\mathcal{P}_{78}^0/x_5 \approx \mathcal{G}_{16}^1$ $\mathcal{P}_{78}^0/x_6 \approx \mathcal{G}_{19}^2$ $\mathcal{P}_{78}^0/x_7 \approx \mathcal{G}_{17}^7$ $\mathcal{P}_{78}^0/x_8 \approx \mathcal{G}_{15}^3$ $\mathcal{P}_{78}^0/x_9 \approx \mathcal{G}_{14}^1$
Subpolytopes	$\mathcal{P}_{78}^0 \setminus x_1 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{78}^0 \setminus x_2 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{78}^0 \setminus x_3 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{78}^0 \setminus x_4 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{78}^0 \setminus x_5 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{78}^0 \setminus x_6 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{78}^0 \setminus x_7 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{78}^0 \setminus x_8 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{78}^0 \setminus x_9 \approx \mathcal{N}(8, 5)$
Polytope	\mathcal{P}_{79}^0
Facets	12347 12349 12379 12458 12459 12478 12589 12678 12679 12689 13456 13459 13467 13569 13679 14568 14678 15689 23457 23459 23567 23569 23679 24578 25678 25689 34568 34578 34678 35678
UEs	12 14 16 19 25 27 29 34 35 36 37 45 56 58 67 68
MFs	138 157 238 246 389 469 479 489 579 789
Vertex Figures	$\mathcal{P}_{79}^0/x_1 \approx \mathcal{G}_{18}^6$ $\mathcal{P}_{79}^0/x_2 \approx \mathcal{G}_{18}^6$ $\mathcal{P}_{79}^0/x_3 \approx \mathcal{G}_{17}^2$ $\mathcal{P}_{79}^0/x_4 \approx \mathcal{G}_{16}^1$ $\mathcal{P}_{79}^0/x_5 \approx \mathcal{G}_{18}^3$ $\mathcal{P}_{79}^0/x_6 \approx \mathcal{G}_{18}^3$ $\mathcal{P}_{79}^0/x_7 \approx \mathcal{G}_{16}^1$ $\mathcal{P}_{79}^0/x_8 \approx \mathcal{G}_{15}^3$ $\mathcal{P}_{79}^0/x_9 \approx \mathcal{G}_{14}^1$
Subpolytopes	$\mathcal{P}_{79}^0 \setminus x_1 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{79}^0 \setminus x_2 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{79}^0 \setminus x_3 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{79}^0 \setminus x_4 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{79}^0 \setminus x_5 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{79}^0 \setminus x_6 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{79}^0 \setminus x_7 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{79}^0 \setminus x_8 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{79}^0 \setminus x_9 \approx \mathcal{N}(8, 5)$
Polytope	\mathcal{P}_{80}^0

Facets	12347 12349 12379 12458 12459 12478 12589 12678 12679 12689 13456 13459 13467 13569 13679 14568 14678 15689 23458 23459 23478 23567 23569 23578 23679 25678 25689 34567 34578 45678
UEs	12 14 16 19 23 25 27 28 29 34 35 37 45 56 58 67
MFs	138 157 246 368 389 469 479 489 579 789
Vertex Figures	$\mathcal{P}_{80}^0/x_1 \approx \mathcal{G}_{18}^6$ $\mathcal{P}_{80}^0/x_2 \approx \mathcal{G}_{19}^4$ $\mathcal{P}_{80}^0/x_3 \approx \mathcal{G}_{17}^1$ $\mathcal{P}_{80}^0/x_4 \approx \mathcal{G}_{16}^1$ $\mathcal{P}_{80}^0/x_5 \approx \mathcal{G}_{18}^2$ $\mathcal{P}_{80}^0/x_6 \approx \mathcal{G}_{17}^7$ $\mathcal{P}_{80}^0/x_7 \approx \mathcal{G}_{16}^1$ $\mathcal{P}_{80}^0/x_8 \approx \mathcal{G}_{15}^3$ $\mathcal{P}_{80}^0/x_9 \approx \mathcal{G}_{14}^1$
Subpolytopes	$\mathcal{P}_{80}^0 \setminus x_1 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{80}^0 \setminus x_2 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{80}^0 \setminus x_3 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{80}^0 \setminus x_4 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{80}^0 \setminus x_5 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{80}^0 \setminus x_6 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{80}^0 \setminus x_7 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{80}^0 \setminus x_8 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{80}^0 \setminus x_9 \approx \mathcal{N}(8, 5)$
Polytope	\mathcal{P}_{81}^0
Facets	12347 12349 12379 12458 12459 12478 12589 12678 12679 12689 13456 13459 13467 13569 13679 14567 14578 15678 15689 23456 23459 23468 23478 23569 23678 23679 24568 25689 34678 45678
UEs	12 14 15 16 17 19 23 24 26 28 29 34 36 45 56 67 68
MFs	138 257 357 358 389 469 479 489 579 789
Vertex Figures	$\mathcal{P}_{81}^0/x_1 \approx \mathcal{G}_{19}^4$ $\mathcal{P}_{81}^0/x_2 \approx \mathcal{G}_{19}^4$ $\mathcal{P}_{81}^0/x_3 \approx \mathcal{G}_{16}^1$ $\mathcal{P}_{81}^0/x_4 \approx \mathcal{G}_{17}^1$ $\mathcal{P}_{81}^0/x_5 \approx \mathcal{G}_{16}^1$ $\mathcal{P}_{81}^0/x_6 \approx \mathcal{G}_{19}^3$ $\mathcal{P}_{81}^0/x_7 \approx \mathcal{G}_{15}^3$ $\mathcal{P}_{81}^0/x_8 \approx \mathcal{G}_{15}^3$ $\mathcal{P}_{81}^0/x_9 \approx \mathcal{G}_{14}^1$
Subpolytopes	$\mathcal{P}_{81}^0 \setminus x_1 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{81}^0 \setminus x_2 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{81}^0 \setminus x_3 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{81}^0 \setminus x_4 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{81}^0 \setminus x_5 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{81}^0 \setminus x_6 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{81}^0 \setminus x_7 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{81}^0 \setminus x_8 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{81}^0 \setminus x_9 \approx \mathcal{C}(8, 5)$
Polytope	\mathcal{P}_{82}^0
Facets	12347 12349 12379 12458 12459 12478 12589 12678 12679 12689 13456 13459 13467 13569 13679 14567 14578 15678 15689 23457 23459 23568 23569 23578 23678 23679 24578 25689 34567 35678
UEs	12 14 15 16 17 19 23 25 27 28 29 35 36 37 45 56 58 67
MFs	138 246 348 389 468 469 479 489 579 789
Vertex Figures	$\mathcal{P}_{82}^0/x_1 \approx \mathcal{G}_{19}^4$ $\mathcal{P}_{82}^0/x_2 \approx \mathcal{G}_{19}^4$ $\mathcal{P}_{82}^0/x_3 \approx \mathcal{G}_{17}^2$ $\mathcal{P}_{82}^0/x_4 \approx \mathcal{G}_{14}^1$ $\mathcal{P}_{82}^0/x_5 \approx \mathcal{G}_{19}^4$ $\mathcal{P}_{82}^0/x_6 \approx \mathcal{G}_{17}^2$ $\mathcal{P}_{82}^0/x_7 \approx \mathcal{G}_{17}^2$ $\mathcal{P}_{82}^0/x_8 \approx \mathcal{G}_{14}^1$ $\mathcal{P}_{82}^0/x_9 \approx \mathcal{G}_{14}^1$
Subpolytopes	$\mathcal{P}_{82}^0 \setminus x_1 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{82}^0 \setminus x_2 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{82}^0 \setminus x_3 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{82}^0 \setminus x_4 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{82}^0 \setminus x_5 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{82}^0 \setminus x_6 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{82}^0 \setminus x_7 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{82}^0 \setminus x_8 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{82}^0 \setminus x_9 \approx \mathcal{C}(8, 5)$

Polytope	\mathcal{P}_{83}^0
Facets	12347 12349 12379 12478 12489 12568 12569 12589 12678 12679 13456 13459 13467 13569 13679 14567 14578 14589 15678 23456 23459 23468 23478 23569 23678 23679 24568 24589 34678 45678
UEs	12 14 15 16 17 19 23 24 26 28 29 34 36 45 48 56 67
MFs	138 257 357 358 389 469 479 579 689 789
Vertex Figures	$\mathcal{P}_{83}^0/x_1 \approx \mathcal{G}_{19}^2$ $\mathcal{P}_{83}^0/x_2 \approx \mathcal{G}_{19}^2$ $\mathcal{P}_{83}^0/x_3 \approx \mathcal{G}_{16}^1$ $\mathcal{P}_{83}^0/x_4 \approx \mathcal{G}_{18}^1$ $\mathcal{P}_{83}^0/x_5 \approx \mathcal{G}_{16}^1$ $\mathcal{P}_{83}^0/x_6 \approx \mathcal{G}_{18}^1$ $\mathcal{P}_{83}^0/x_7 \approx \mathcal{G}_{15}^3$ $\mathcal{P}_{83}^0/x_8 \approx \mathcal{G}_{15}^3$ $\mathcal{P}_{83}^0/x_9 \approx \mathcal{G}_{14}^2$
Subpolytopes	$\mathcal{P}_{83}^0 \setminus x_1 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{83}^0 \setminus x_2 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{83}^0 \setminus x_3 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{83}^0 \setminus x_4 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{83}^0 \setminus x_5 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{83}^0 \setminus x_6 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{83}^0 \setminus x_7 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{83}^0 \setminus x_8 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{83}^0 \setminus x_9 \approx \mathcal{C}(8, 5)$
Polytope	\mathcal{P}_{84}^0
Facets	12347 12349 12379 12467 12468 12489 12568 12569 12589 12679 13457 13459 13567 13569 13679 14567 14568 14589 23458 23459 23467 23468 23568 23569 23679 24589 34578 34678 35678 45678
UEs	12 14 15 16 19 23 24 26 29 34 35 36 37 45 48 56 58 67
MFs	138 178 257 278 389 469 479 579 689 789
Vertex Figures	$\mathcal{P}_{84}^0/x_1 \approx \mathcal{G}_{18}^2$ $\mathcal{P}_{84}^0/x_2 \approx \mathcal{G}_{18}^2$ $\mathcal{P}_{84}^0/x_3 \approx \mathcal{G}_{18}^2$ $\mathcal{P}_{84}^0/x_4 \approx \mathcal{G}_{18}^2$ $\mathcal{P}_{84}^0/x_5 \approx \mathcal{G}_{18}^2$ $\mathcal{P}_{84}^0/x_6 \approx \mathcal{G}_{18}^2$ $\mathcal{P}_{84}^0/x_7 \approx \mathcal{G}_{14}^2$ $\mathcal{P}_{84}^0/x_8 \approx \mathcal{G}_{14}^2$ $\mathcal{P}_{84}^0/x_9 \approx \mathcal{G}_{14}^2$
Subpolytopes	$\mathcal{P}_{84}^0 \setminus x_1 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{84}^0 \setminus x_2 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{84}^0 \setminus x_3 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{84}^0 \setminus x_4 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{84}^0 \setminus x_5 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{84}^0 \setminus x_6 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{84}^0 \setminus x_7 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{84}^0 \setminus x_8 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{84}^0 \setminus x_9 \approx \mathcal{C}(8, 5)$
Polytope	\mathcal{P}_{85}^0
Facets	12347 12349 12379 12467 12468 12489 12568 12569 12589 12679 13457 13459 13567 13569 13679 14578 14589 14678 15678 23458 23459 23478 23568 23569 23678 23679 24589 24678 34578 35678
UEs	12 14 15 16 17 19 23 24 26 28 29 35 37 48 58 67
MFs	138 257 346 389 456 469 479 579 689 789
Vertex Figures	$\mathcal{P}_{85}^0/x_1 \approx \mathcal{G}_{19}^3$ $\mathcal{P}_{85}^0/x_2 \approx \mathcal{G}_{19}^3$ $\mathcal{P}_{85}^0/x_3 \approx \mathcal{G}_{17}^1$ $\mathcal{P}_{85}^0/x_4 \approx \mathcal{G}_{16}^1$ $\mathcal{P}_{85}^0/x_5 \approx \mathcal{G}_{17}^1$ $\mathcal{P}_{85}^0/x_6 \approx \mathcal{G}_{16}^1$ $\mathcal{P}_{85}^0/x_7 \approx \mathcal{G}_{16}^1$ $\mathcal{P}_{85}^0/x_8 \approx \mathcal{G}_{16}^1$ $\mathcal{P}_{85}^0/x_9 \approx \mathcal{G}_{14}^2$

Subpolytopes	$\mathcal{P}_{85}^0 \setminus x_1 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{85}^0 \setminus x_2 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{85}^0 \setminus x_3 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{85}^0 \setminus x_4 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{85}^0 \setminus x_5 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{85}^0 \setminus x_6 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{85}^0 \setminus x_7 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{85}^0 \setminus x_8 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{85}^0 \setminus x_9 \approx \mathcal{N}(8, 5)$
Polytope	\mathcal{P}_{86}^0
Facets	12457 12459 12478 12489 12568 12569 12578 12689 13456 13459 13469 13569 14568 14578 14689 23457 23459 23479 23568 23569 23578 23678 23679 24678 24679 24689 34567 34679 35678 45678
UEs	14 15 24 25 26 27 28 29 35 36 45 46 47 49 56 68 69
MFs	123 137 138 167 179 348 389 579 589 789
Vertex Figures	$\mathcal{P}_{86}^0/x_1 \approx \mathcal{G}_{15}^3$ $\mathcal{P}_{86}^0/x_2 \approx \mathcal{G}_{19}^1$ $\mathcal{P}_{86}^0/x_3 \approx \mathcal{G}_{15}^3$ $\mathcal{P}_{86}^0/x_4 \approx \mathcal{G}_{19}^2$ $\mathcal{P}_{86}^0/x_5 \approx \mathcal{G}_{18}^2$ $\mathcal{P}_{86}^0/x_6 \approx \mathcal{G}_{19}^2$ $\mathcal{P}_{86}^0/x_7 \approx \mathcal{G}_{15}^3$ $\mathcal{P}_{86}^0/x_8 \approx \mathcal{G}_{15}^3$ $\mathcal{P}_{86}^0/x_9 \approx \mathcal{G}_{15}^1$
Subpolytopes	$\mathcal{P}_{86}^0 \setminus x_1 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{86}^0 \setminus x_2 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{86}^0 \setminus x_3 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{86}^0 \setminus x_4 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{86}^0 \setminus x_5 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{86}^0 \setminus x_6 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{86}^0 \setminus x_7 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{86}^0 \setminus x_8 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{86}^0 \setminus x_9 \approx \mathcal{C}(8, 5)$
Polytope	\mathcal{P}_{87}^0
Facets	12457 12459 12467 12469 12578 12589 12678 12689 13457 13459 13468 13469 13478 13568 13569 13578 14678 15689 23457 23459 23479 23568 23569 23578 23678 23679 24679 25689 34678 34679
UEs	14 15 16 18 25 26 27 29 34 35 36 37 47 68 69
MFs	123 179 248 389 456 458 489 567 579 789
Vertex Figures	$\mathcal{P}_{87}^0/x_1 \approx \mathcal{G}_{18}^4$ $\mathcal{P}_{87}^0/x_2 \approx \mathcal{G}_{18}^4$ $\mathcal{P}_{87}^0/x_3 \approx \mathcal{G}_{18}^5$ $\mathcal{P}_{87}^0/x_4 \approx \mathcal{G}_{16}^1$ $\mathcal{P}_{87}^0/x_5 \approx \mathcal{G}_{16}^6$ $\mathcal{P}_{87}^0/x_6 \approx \mathcal{G}_{18}^2$ $\mathcal{P}_{87}^0/x_7 \approx \mathcal{G}_{16}^1$ $\mathcal{P}_{87}^0/x_8 \approx \mathcal{G}_{15}^3$ $\mathcal{P}_{87}^0/x_9 \approx \mathcal{G}_{15}^3$
Subpolytopes	$\mathcal{P}_{87}^0 \setminus x_1 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{87}^0 \setminus x_2 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{87}^0 \setminus x_3 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{87}^0 \setminus x_4 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{87}^0 \setminus x_5 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{87}^0 \setminus x_6 \approx \mathcal{N}(8, 5)$ $\mathcal{P}_{87}^0 \setminus x_7 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{87}^0 \setminus x_8 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{87}^0 \setminus x_9 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$
Polytope	\mathcal{P}_{88}^0
Facets	12457 12459 12467 12469 12578 12589 12678 12689 13458 13459 13467 13469 13478 13568 13569 13678 14578 15689 23457 23459 23479 23568 23569 23578 23678 23679 24679 25689 34578 34679
UEs	14 15 16 18 25 26 27 29 34 35 36 37 47 58 69
MFs	123 179 248 389 456 468 489 567 579 789

Vertex Figures	$\mathcal{P}_{88}^0/x_1 \approx \mathcal{G}_{18}^4$ $\mathcal{P}_{88}^0/x_2 \approx \mathcal{G}_{18}^4$ $\mathcal{P}_{88}^0/x_3 \approx \mathcal{G}_{18}^6$ $\mathcal{P}_{88}^0/x_4 \approx \mathcal{G}_{16}^1$ $\mathcal{P}_{88}^0/x_5 \approx \mathcal{G}_{17}^5$ $\mathcal{P}_{88}^0/x_6 \approx \mathcal{G}_{17}^5$ $\mathcal{P}_{88}^0/x_7 \approx \mathcal{G}_{16}^1$ $\mathcal{P}_{88}^0/x_8 \approx \mathcal{G}_{15}^3$ $\mathcal{P}_{88}^0/x_9 \approx \mathcal{G}_{15}^3$
Subpolytopes	$\mathcal{P}_{88}^0 \setminus x_1 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{88}^0 \setminus x_2 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{88}^0 \setminus x_3 \approx \mathcal{C}(8, 5)$ $\mathcal{P}_{88}^0 \setminus x_4 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{88}^0 \setminus x_5 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{88}^0 \setminus x_6 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{88}^0 \setminus x_7 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{88}^0 \setminus x_8 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{88}^0 \setminus x_9 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$
Polytope	\mathcal{P}_{89}^0
Facets	12345 12349 12358 12378 12379 12458 12478 12479 13459 13568 13569 13678 13679 14567 14569 14578 14679 15678 23459 23568 23569 23689 23789 24568 24569 24678 24679 26789 36789 45678
UEs	13 14 15 17 23 24 28 29 39 45 56 67 68 69 78
MFs	126 189 257 346 347 348 357 489 579 589
Vertex Figures	$\mathcal{P}_{89}^0/x_1 \approx \mathcal{G}_{18}^6$ $\mathcal{P}_{89}^0/x_2 \approx \mathcal{G}_{18}^6$ $\mathcal{P}_{89}^0/x_3 \approx \mathcal{G}_{16}^1$ $\mathcal{P}_{89}^0/x_4 \approx \mathcal{G}_{16}^1$ $\mathcal{P}_{89}^0/x_5 \approx \mathcal{G}_{16}^1$ $\mathcal{P}_{89}^0/x_6 \approx \mathcal{G}_{18}^6$ $\mathcal{P}_{89}^0/x_7 \approx \mathcal{G}_{16}^1$ $\mathcal{P}_{89}^0/x_8 \approx \mathcal{G}_{16}^1$ $\mathcal{P}_{89}^0/x_9 \approx \mathcal{G}_{16}^1$
Subpolytopes	$\mathcal{P}_{89}^0 \setminus x_1 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{89}^0 \setminus x_2 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{89}^0 \setminus x_3 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{89}^0 \setminus x_4 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{89}^0 \setminus x_5 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{89}^0 \setminus x_6 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{89}^0 \setminus x_7 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{89}^0 \setminus x_8 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$ $\mathcal{P}_{89}^0 \setminus x_9 \approx \mathcal{C}(8, 5)$ and $\mathcal{N}(8, 5)$

A Previously known results

Name	Facets: the facet $[x_i, x_j, x_k, x_m]$ is written as ijkm
\mathcal{G}_1^{14}	1234 1237 1245 1258 1267 1268 1345 1356 1367 1568 2345 2356 2367 2568
\mathcal{G}_2^{14}	1234 1237 1248 1256 1258 1267 1345 1356 1367 1458 2345 2356 2367 2458
\mathcal{G}_3^{14}	1237 1238 1245 1248 1256 1267 1345 1348 1356 1367 2345 2348 2356 2367
\mathcal{G}_1^{15}	1245 1248 1256 1268 1345 1346 1356 1468 2345 2347 2356 2367 2467 2468 3467
\mathcal{G}_2^{15}	1245 1246 1256 1345 1346 1356 2345 2347 2356 2367 2468 2478 2678 3467 4678
\mathcal{G}_3^{15}	1245 1246 1258 1268 1345 1346 1356 1568 2345 2347 2356 2367 2467 2568 3467

Name	Facets: the facet $[x_i, x_j, x_k, x_m]$ is written as ijkm
\mathcal{G}_4^{15}	1246 1247 1256 1257 1346 1347 1356 1358 1378 1578 2346 2347 2356 2357 3578
\mathcal{G}_5^{15}	1245 1248 1256 1267 1278 1345 1348 1356 1367 1378 2345 2348 2356 2367 2378
\mathcal{G}_1^{16}	1234 1237 1247 1345 1356 1367 1456 1467 2345 2356 2368 2378 2456 2467 2678 3678
\mathcal{G}_2^{16}	1234 1238 1247 1278 1345 1356 1367 1378 1456 1467 2345 2356 2367 2378 2456 2467
\mathcal{G}_3^{16}	1237 1238 1247 1248 1345 1348 1356 1367 1456 1467 2345 2348 2356 2367 2456 2467
\mathcal{G}_4^{16}	1245 1246 1256 1345 1346 1356 2345 2347 2356 2368 2378 2468 2478 3467 3678 4678
\mathcal{G}_5^{16}	1245 1246 1256 1345 1346 1356 2345 2347 2356 2367 2468 2478 2678 3468 3478 3678
\mathcal{G}_6^{16}	1245 1246 1256 1345 1346 1356 2345 2347 2358 2378 2467 2568 2678 3467 3568 3678
\mathcal{G}_7^{16}	1246 1247 1256 1257 1346 1347 1356 1357 2346 2348 2356 2358 2478 2578 3478 3578
\mathcal{G}_8^{16}	1246 1247 1256 1257 1346 1347 1356 1357 2468 2478 2568 2578 3468 3478 3568 3578
\mathcal{G}_1^{17}	1234 1237 1245 1256 1267 1347 1457 1567 2345 2356 2368 2378 2678 3456 3467 3678 4567
\mathcal{G}_2^{17}	1237 1238 1245 1248 1256 1267 1347 1348 1457 1567 2345 2348 2356 2367 3456 3467 4567
\mathcal{G}_3^{17}	1234 1237 1247 1345 1356 1368 1378 1456 1467 1678 2345 2356 2368 2378 2456 2467 2678
\mathcal{G}_4^{17}	1234 1237 1247 1345 1356 1368 1378 1456 1468 1478 2345 2356 2367 2456 2467 3678 4678
\mathcal{G}_5^{17}	1234 1238 1247 1278 1345 1356 1368 1456 1467 1678 2345 2356 2367 2378 2456 2467 3678
\mathcal{G}_6^{17}	1234 1238 1248 1345 1356 1367 1378 1456 1467 1478 2345 2356 2367 2378 2456 2467 2478
\mathcal{G}_7^{17}	1234 1237 1247 1345 1358 1378 1456 1467 1568 1678 2345 2356 2367 2456 2467 3568 3678
\mathcal{G}_8^{17}	1246 1247 1256 1257 1346 1347 1356 1357 2346 2348 2368 2478 2568 2578 3478 3568 3578
\mathcal{G}_1^{18}	1234 1237 1245 1256 1267 1347 1457 1567 2345 2356 2368 2378 2678 3456 3468 3478 4567 4678

Name	Facets: the facet $[x_i, x_j, x_k, x_m]$ is written as ijkm
\mathcal{G}_2^{18}	1234 1237 1245 1256 1267 1347 1457 1568 1578 1678 2345 2356 2367 3456 3467 4568 4578 4678
\mathcal{G}_3^{18}	1234 1237 1245 1256 1268 1278 1347 1457 1567 1678 2345 2356 2368 2378 3456 3467 3678 4567
\mathcal{G}_4^{18}	1247 1248 1278 1356 1358 1367 1378 1456 1458 1467 2345 2348 2356 2367 2378 2456 2467 3458
\mathcal{G}_5^{18}	1234 1237 1247 1345 1356 1367 1456 1467 2348 2356 2358 2367 2478 2568 2678 3458 4568 4678
\mathcal{G}_6^{18}	1234 1237 1247 1345 1356 1367 1458 1478 1568 1678 2345 2356 2367 2456 2468 2478 2678 4568
\mathcal{G}_1^{19}	1234 1237 1245 1256 1267 1347 1457 1567 2348 2378 2458 2568 2678 3456 3458 3467 3568 3678 4567
\mathcal{G}_2^{19}	1245 1248 1256 1267 1278 1347 1348 1378 1457 1567 2345 2348 2356 2368 2678 3456 3467 3678 4567
\mathcal{G}_3^{19}	1245 1248 1256 1268 1347 1348 1378 1457 1567 1678 2345 2348 2356 2367 2378 2678 3456 3467 4567
\mathcal{G}_4^{19}	1234 1237 1245 1258 1267 1268 1347 1458 1478 1678 2345 2356 2367 2568 3456 3467 4567 4578 5678
\mathcal{G}_1^{20}	1234 1238 1245 1256 1267 1278 1348 1458 1568 1678 2345 2356 2367 2378 3456 3467 3478 4567 4578 5678
\mathcal{G}_2^{20}	1234 1238 1245 1256 1268 1348 1458 1567 1578 1678 2345 2356 2367 2378 2678 3456 3467 3478 4567 4578
\mathcal{G}_3^{20}	1234 1238 1245 1256 1268 1348 1457 1478 1568 1578 2345 2356 2367 2378 2678 3456 3467 3478 4567 5678

Table 2: The simplicial 4-polytopes with eight vertices.

Polytope \mathcal{Q}_1 ; the facet $[x_i, x_j, x_k, x_l, x_m, x_n]$ is written as ijklmn
012345 012349 012356 012367 012378 012389 012459 012569 012679 012789
013456 013467 013478 013489 014567 014578 014589 015678 015689 016789
023459 023569 023679 023789 034569 034679 034789 045679 045789 056789
123456 123467 123478 123489 124567 124578 124589 125678 125689 126789
234567 234578 234589 235678 235689 236789 345678 345689 346789 456789
Polytope \mathcal{Q}_2
012348 012349 012356 012358 012367 012379 012489 012567 012578 012789
013458 013459 013567 013579 014589 015789 023468 023469 023568 023679
024689 025678 026789 034589 034678 034679 034789 035678 035789 046789
123456 123458 123467 123479 124569 124589 124679 125678 125689 126789

134567 134579 145679 156789 234568 234679 245689 345678 345789 456789
Polytope Q_3
012356 012357 012369 012379 012458 012459 012489 012569 012578 012789
013569 013579 014589 015789 023467 023468 023478 023567 023689 023789
024567 024569 024578 024689 034678 035679 036789 045678 045689 056789
123456 123457 123469 123479 124569 124578 124789 134568 134578 134689
134789 135678 135679 136789 145689 156789 234567 234689 234789 345678
Polytope Q_4
012358 012359 012389 012467 012468 012478 012567 012569 012578 012689
013568 013569 013689 014678 015678 023458 023459 023489 024567 024569
024578 024689 034578 034579 034789 035689 035789 045679 046789 056789
123456 123457 123469 123479 123569 123578 123789 124567 124689 124789
134567 134679 135678 136789 146789 234569 234578 234789 345679 356789
Polytope Q_5
012567 012569 012578 012589 012679 012789 013458 013459 013478 013479
013589 013789 014578 014579 015679 023468 023469 023489 023689 024567
024568 024578 024679 024789 025689 034568 034569 034789 035689 045679
123456 123458 123467 123478 123568 123678 124567 124578 125689 126789
134567 134579 135679 135689 136789 234568 234679 234789 236789 345679
Polytope Q_6
012347 012349 012356 012358 012367 012389 012479 012567 012578 012789
013479 013567 013579 013589 015789 023456 023458 023467 023489 024568
024679 024689 025678 026789 034568 034678 034789 035678 035789 046789
123456 123458 123467 123489 124569 124589 124679 125678 125689 126789
134569 134589 134679 135679 156789 245689 345678 345679 345789 456789
Polytope Q_7
012345 012349 012356 012369 012459 012569 013459 013568 013578 013579
013678 013679 015678 015679 023458 023467 023469 023478 023568 023678
024589 024678 024689 025689 034589 034679 034789 035789 046789 056789
123458 123467 123469 123478 123568 123678 124567 124569 124578 125678
134589 134679 134789 135789 145679 145789 245679 245789 246789 256789
Polytope Q_8
012456 012458 012469 012489 012569 012589 013457 013459 013478 013489
013578 013589 014569 014578 023678 023679 023689 023789 024568 024678
024679 024789 025689 034579 034789 035678 035679 035689 045678 045679
123467 123469 123478 123489 123567 123569 123578 123589 124568 124678
125678 134579 134679 135679 145678 145679 234679 234789 235678 235689
Polytope Q_9
012456 012458 012468 012568 013457 013459 013479 013579 014569 014578
014678 014679 015678 015679 023678 023679 023689 023789 024569 024589

024689 025678 025679 025789 034578 034589 034678 034679 034689 035789 123467 123469 123478 123489 123567 123569 123578 123589 124569 124589 124678 125678 134578 134589 134679 135679 234678 234689 235679 235789
Polytope Q_{10}
012345 012347 012356 012367 012457 012568 012579 012589 012679 012689 013457 013567 015679 015689 023458 023478 023568 023678 024578 025789 026789 034579 034589 034678 034679 034689 035679 035689 045789 046789 123458 123467 123469 123489 123568 123689 124578 124679 124789 125789 134567 134569 134589 135689 145679 145789 234678 234689 246789 345679
Polytope Q_{11}
012345 012347 012358 012367 012369 012389 012459 012479 012589 012679 013457 013578 013678 013689 014579 015789 016789 023458 023467 023468 023689 024567 024568 024579 025678 025789 026789 034567 034568 035678 123458 123467 123469 123489 124589 124679 134579 134589 134679 135678 135679 135689 156789 234689 245678 245789 246789 345679 345689 456789
Polytope Q_{12}
012346 012349 012368 012389 012467 012479 012678 012789 013457 013459 013467 013567 013569 013689 014579 015679 016789 023469 023689 024568 024569 024578 024579 024678 025689 025789 034567 034569 045678 056789 123458 123459 123467 123478 123589 123678 124578 124579 125789 134578 135679 135789 136789 234589 234678 234689 245689 345678 345689 356789
Polytope Q_{13}
012345 012346 012356 012456 013459 013467 013479 013568 013578 013579 013678 014567 014579 015678 023459 023469 023569 024568 024589 024678 024679 024789 025689 026789 034679 035689 035789 036789 045678 045789 123459 123467 123478 123489 123569 123678 123689 124567 124578 124589 125678 125689 134789 135689 135789 145789 234679 234789 236789 245678
Polytope Q_{14}
012346 012347 012369 012379 012457 012458 012468 012567 012568 012679 013468 013478 013689 013789 014578 015678 016789 023467 023679 024567 024568 034578 034579 034589 034679 034689 035789 045679 045689 056789 123457 123459 123468 123489 123579 123689 124589 125678 125789 126789 134578 134589 135789 234567 234569 234689 235679 245689 256789 345679
Polytope Q_{15}
012345 012348 012356 012368 012458 012568 013459 013478 013479 013568 013578 013579 014578 014579 023456 023469 023489 023689 024567 024578 024678 024689 025678 034569 034789 035689 035789 045679 046789 056789 123456 123469 123478 123479 123678 123679 124569 124578 124579 125678 125679 134569 135689 135789 136789 156789 234789 236789 245679 246789

Polytope Q_{16}
012456 012459 012467 012479 012567 012579 013456 013458 013468 013567 013578 013678 014578 014579 014678 023456 023459 023468 023489 023569 023689 024679 024689 025679 034589 035678 035689 045789 046789 056789 123456 123459 123468 123489 123567 123579 123678 123789 124679 124689 126789 134578 134579 134789 146789 235678 235689 235789 256789 345789
Polytope Q_{17}
012346 012349 012368 012389 012468 012489 013457 013459 013468 013478 013578 013589 014578 014589 023469 023689 024678 024679 024789 025678 025679 025689 025789 034579 034678 034679 035678 035679 035689 045789 123469 123567 123568 123579 123589 123679 124567 124568 124579 124589 124679 134579 134678 134679 135678 145678 235679 235689 245678 245789
Polytope Q_{18}
012357 012359 012379 012579 013457 013458 013468 013469 013479 013589 013689 014568 014569 014579 015689 023467 023469 023479 023578 023589 023678 023689 024678 024689 024789 025789 034578 034678 045689 045789 123467 123469 123479 123567 123568 123589 123689 124567 124569 124579 125689 134578 134678 135678 145678 235678 245679 246789 256789 456789
Polytope Q_{19}
012467 012469 012478 012489 012567 012569 012578 012589 013458 013459 013478 013479 013578 013579 014589 014679 015679 023467 023468 023478 023678 024689 025679 025789 026789 034589 034679 034689 035789 036789 123456 123458 123467 123478 123567 123578 124568 124689 125689 134567 134579 145679 145689 234568 235679 235689 235789 236789 345679 345689
Polytope Q_{20}
012345 012348 012358 012457 012467 012468 012579 012589 012678 012789 013458 014567 014568 015678 015789 023457 023467 023469 023489 023579 023589 023679 024689 026789 034578 034679 034789 035789 045678 046789 123457 123467 123469 123489 123567 123569 123589 124689 125679 126789 134567 134569 134589 145689 156789 235679 345678 345689 346789 356789
Polytope Q_{21}
012357 012358 012379 012389 012579 012589 013456 013457 013467 013569 013589 013679 014567 015679 023457 023458 023478 023789 024579 024589 024678 024679 024689 026789 034569 034589 034678 034689 036789 045679 123457 123458 123467 123468 123678 123789 124567 124568 125678 125789 134569 134589 134689 136789 145689 156789 234678 245679 245689 256789
Polytope Q_{22}
012347 012349 012367 012368 012389 012478 012489 012567 012568 012578 013478 013489 013678 015678 023457 023459 023567 023569 023689 024579

024789 025689 025789 034579 034678 034679 034689 035679 046789 056789 123456 123457 123469 123567 123689 124569 124579 124789 125689 125789 134568 134578 134689 135678 145689 145789 234569 345678 345679 456789
Polytope Q_{23}
012346 012347 012367 012467 013456 013458 013478 013568 013679 013689 013789 014568 014678 016789 023469 023478 023489 023679 023789 024578 024579 024589 024679 025789 034569 034589 035689 045678 045679 056789 123458 123459 123469 123478 123578 123579 123679 124568 124569 124678 125678 125679 134569 135689 135789 156789 234589 235789 245678 245679
Polytope Q_{24}
012357 012358 012378 012578 013468 013469 013489 013568 013569 013579 013789 014689 015689 015789 023458 023459 023478 023479 023579 024567 024569 024578 024679 025679 034568 034569 034789 045678 046789 056789 123456 123458 123467 123478 123569 123579 123679 124568 124678 125689 125789 126789 134568 134679 134789 146789 234569 234679 245678 256789
Polytope Q_{25}
012346 012348 012369 012389 012469 012489 013457 013458 013467 013567 013568 013689 014579 014589 014679 015679 015689 023457 023458 023467 023578 023678 023689 024578 024678 024689 035678 045678 045679 045689 123458 123459 123467 123479 123589 123679 124589 124679 134579 135678 135789 136789 156789 234579 235789 236789 245678 245679 245689 256789
Polytope Q_{26}
012345 012346 012359 012368 012389 012456 012567 012579 012679 012689 013459 013469 013689 014569 015679 023457 023468 023478 023578 023589 024567 024678 025789 026789 034568 034569 034578 035689 045678 056789 123457 123468 123478 123578 123589 124567 124679 124689 124789 125789 134579 134689 134789 135789 145679 246789 345678 345679 346789 356789
Polytope Q_{27}
012345 012346 012356 012456 013458 013467 013479 013489 013567 013578 013789 014567 014579 014589 015789 023458 023467 023479 023489 023568 023679 023689 024568 024678 024789 026789 035678 036789 045678 045789 123458 123467 123479 123489 123569 123589 123679 124569 124589 124679 135678 135689 136789 145679 156789 235689 245678 245679 245789 256789
Polytope Q_{28}
012347 012349 012358 012359 012378 012479 012567 012569 012578 012679 013478 013489 013589 014568 014569 014589 014678 014679 015678 023479 023568 023569 023689 023789 025678 026789 034789 035689 045689 046789 123456 123458 123469 123478 123569 124567 124578 124679 134569 134589 145678 234567 234578 234679 235678 236789 345679 345789 356789 456789

Polytope Q_{29}									
012378	012379	012389	012467	012468	012479	012489	012678	013458	013459
013489	013578	013579	014578	014579	014678	023567	023569	023579	023678
023689	024679	024689	025679	034589	035678	035689	045789	046789	056789
123456	123459	123468	123489	123567	123579	123678	124569	124679	125679
134567	134578	134678	145679	234568	234589	235689	245689	345678	456789
Polytope Q_{30}									
012357	012358	012368	012369	012379	012456	012459	012469	012568	012579
013568	013569	013579	014569	023578	023678	023679	024568	024589	024678
024679	024789	025789	034678	034679	034689	034789	035689	035789	045689
123467	123468	123478	123578	123679	124568	124589	124679	124789	125789
134567	134568	134578	135679	145679	145789	234678	345679	345689	345789
Polytope Q_{31}									
012345	012348	012356	012368	012458	012568	013457	013479	013489	013568
013579	013589	014579	014589	023457	023479	023489	023567	023679	023689
024578	024678	024679	024689	025678	035678	035789	036789	045789	046789
123457	123467	123469	123489	123567	123689	124567	124569	124589	125689
134679	135678	135789	136789	145679	156789	234679	245678	245689	456789
Polytope Q_{32}									
012347	012349	012356	012359	012367	012478	012489	012567	012579	012789
013479	013567	013579	014789	023458	023459	023478	023568	023678	024589
025678	025789	034568	034569	034689	034789	035679	036789	045689	056789
123456	123459	123468	123478	123678	124569	124689	125678	125689	125789
134567	134579	134678	145679	146789	156789	234568	245689	345679	346789
Polytope Q_{33}									
012346	012349	012368	012389	012456	012458	012489	012568	013456	013457
013479	013569	013579	013689	014578	014789	015689	015789	023469	023689
024568	024678	024679	024789	026789	034569	034579	045678	045679	056789
123456	123457	123478	123489	123568	123578	124578	134789	135678	135679
136789	156789	234569	234579	234789	235678	235679	236789	245678	245679
Polytope Q_{34}									
012345	012347	012356	012367	012457	012569	012579	012678	012689	012789
013457	013569	013579	013679	016789	023456	023468	023478	023678	024569
024578	024589	024689	025789	034568	034578	035678	035679	045689	056789
123456	123469	123478	123489	123678	123689	124569	124578	124589	125789
134569	134579	134789	136789	145789	234689	345678	345679	346789	456789
Polytope Q_{35}									
012356	012358	012369	012389	012456	012457	012468	012478	012578	012689
013567	013578	013678	013689	014567	014678	023456	023459	023469	023589

024579 024689 024789 025789 034569 035678 035689 045678 045689 045789 123456 123457 123469 123479 123579 123589 124678 124679 125789 126789 134567 134679 135789 136789 234579 246789 345678 345689 345789 346789
Polytope \mathcal{Q}_{36}
012356 012359 012369 012458 012459 012467 012468 012479 012568 012679 013458 013459 013478 013479 013567 013578 013679 014678 015678 023569 024589 024679 024689 025689 034578 034579 035679 045678 045679 045689 123458 123459 123489 123567 123578 123679 123789 124678 124789 125678 134789 234589 235678 235689 236789 246789 345678 345679 345689 346789
Polytope \mathcal{Q}_{37}
012456 012457 012468 012478 012568 012578 013457 013459 013479 013579 014568 014589 014789 015789 023457 023459 023479 023568 023569 023578 023678 023679 024569 024689 024789 026789 035689 035789 036789 045689 123456 123457 123467 123567 124679 124689 124789 125678 126789 134568 134589 134679 134689 135678 135789 136789 234569 234679 235678 345689

Table 3: The neighbourly 6-polytope with ten vertices.

Facets of $\mathcal{C}(8, 5)$
12345 12356 12367 12378 13456 13467 13478 14567 14578 15678 23458 23568 23678 34568 34678 45678 12348 12458 12568 12678
universal edges of $\mathcal{C}(8, 5)$
12 13 14 15 16 17 18 23 34 45 56 67 78 28 38 48 58 68 78
Facets of $\mathcal{N}(8, 5)$
12457 34567 12567 13456 13467 14567 23457 23567 12458 12478 12568 12678 13458 13478 13568 13678 23478 23458 23678 23568
universal edges of $\mathcal{N}(8, 5)$
14 15 16 17 18 25 27 28 34 35 36 37 38 45 47 56 67

Table 4: The simplicial neighbourly 5-polytopes with eight vertices

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