

# polyDB web interface

## Collection: Polytopes.Lattice.SmoothReflexive

### Collection authored by

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- Mikkel Oebro

### Abstract

Smooth reflexive lattice polytopes in dimensions up to 9, up to lattice equivalence.  
The lists were computed with the algorithm of Mikkel Oebro (see [arxiv: 0704.0049](#)) and are taken from the [website of Andreas Paffenholz](#). They contain splitting data according to [arxiv: 1711.02936](#).

### References

- Mikkel Oebro: *An algorithm for the classification of smooth Fano polytopes*  
arxiv 0704.0049  
[\[arxiv\]](#)
- Mikkel Oebro: *Classification of Smooth Fano Polytopes*  
PhD Thesis, Aarhus 2007
- Andreas Paffenholz: *polyDB: A Database for Polytopes and Related Objects*  
In: Böckle, G., Decker, W., Malle, G. (eds) Algorithmic and Experimental Methods in Algebra, Geometry, and Number Theory.  
Springer  
[\[arxiv\]](#)[\[pub\]](#)

### If you use this collection in your work please cite

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## Search Form

## Results

⌊ Showing results 0 to 123 of 124 ⌋

#### Your search parameters:

- DIM is between 4 and 4

o	<a href="#">F4D.0000</a>	
	DIM	4
	N_FACETS	7
	N_VERTICES	11
	F_VECTOR	11 22 18 7
	H_STAR_VECTOR	1 118 367 118 1
	N_LATTICE_POINTS	123
	N_BOUNDARY_LATTICE_POINTS	122
	LATTICE_VOLUME	605

	FACETS	1 0 -1 1 0 1 0 -1 0 0 1 0 0 0 -1 1 -1 0 0 0 1 0 0 -1 0 1 0 0 1 0 1 1 1 -3 1
1	<a href="#">F4D.0001</a>	
	DIM	4
	N_FACETS	6
	N_VERTICES	8
	F_VECTOR	8 16 14 6
	H_STAR_VECTOR	1 154 490 154 1
	N_LATTICE_POINTS	159
	N_BOUNDARY_LATTICE_POINTS	158
	LATTICE_VOLUME	800
	FACETS	1 0 0 0 -1 1 -1 0 0 0 1 0 -1 0 0 1 0 0 -1 0 1/3 1/3 1/3 1/3 1 1 0 0 0 1
2	<a href="#">F4D.0002</a>	
	DIM	4
	N_FACETS	8
	N_VERTICES	17
	F_VECTOR	17 34 25 8
	H_STAR_VECTOR	1 73 220 73 1
	N_LATTICE_POINTS	78
	N_BOUNDARY_LATTICE_POINTS	77
	LATTICE_VOLUME	368
	FACETS	1 0 0 -1 0 1 -1 0 0 0 1 0 0 0 -1 1 0 0 1 0 1 0 1 -1 1 1 0 -1 0 0 1 0 0 1 -1 1 1 0 -2 1
3	<a href="#">F4D.0003</a>	
	DIM	4
	N_FACETS	7
	N_VERTICES	13
	F_VECTOR	13 26 20 7
	H_STAR_VECTOR	1 103 321 103 1
	N_LATTICE_POINTS	108
	N_BOUNDARY_LATTICE_POINTS	107
	LATTICE_VOLUME	529

FACETS	1 0 0 -1 0 1 0 0 0 -1 1 -1 0 0 0 1 0 -1 0 0 1 0 0 0 1 1 0 1 1 1 1/2 1/2 0 1/2 1
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4

[F4D.0004](#)

DIM	4
N_FACETS	8
N_VERTICES	15
F_VECTOR	15 30 23 8
H_STAR_VECTOR	1 109 338 109 1
N_LATTICE_POINTS	114
N_BOUNDARY_LATTICE_POINTS	113
LATTICE_VOLUME	558
FACETS	1 -1 0 0 0 1 0 0 0 1 1 0 1 0 0 1 0 -1 0 0 1 0 0 -1 0 1 0 -1 0 1 1 0 0 0 -1 1/2 1/2 -1 1/2 1

5

[F4D.0005](#)

DIM	4
N_FACETS	9
N_VERTICES	18
F_VECTOR	18 36 27 9
H_STAR_VECTOR	1 73 216 73 1
N_LATTICE_POINTS	78
N_BOUNDARY_LATTICE_POINTS	77
LATTICE_VOLUME	364
FACETS	1 0 -1 0 1 1 0 0 -1 0 1 0 1 0 -1 1 -1 0 0 0 1 0 -1 0 0 1 0 0 0 -1 1 0 1 0 0 1 0 0 0 1 1/2 1/2 -1 1/2 1

6

[F4D.0006](#)

DIM	4
N_FACETS	8
N_VERTICES	15
F_VECTOR	15 30 23 8
H_STAR_VECTOR	1 94 288 94 1
N_LATTICE_POINTS	99
N_BOUNDARY_LATTICE_POINTS	98
LATTICE_VOLUME	478

FACETS	1 -1 0 0 0 1 0 0 0 1 1 0 1 0 -1 1 0 -1 0 0 1 0 0 -1 0 1 0 -1 0 1 1 0 0 0 -1 1/2 1/2 -1 1/2 1
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7 [F4D.0007](#)

DIM	4
N_FACETS	8
N_VERTICES	16
F_VECTOR	16 32 24 8
H_STAR_VECTOR	1 91 279 91 1
N_LATTICE_POINTS	96
N_BOUNDARY_LATTICE_POINTS	95
LATTICE_VOLUME	463
FACETS	1 -1 0 0 1 1 -1 0 0 0 1/2 -1/2 0 1/2 1 1 -1 1 0 1 1 0 0 -1 0 1 0 -1 0 0 1 0 0 0 -1 1 1 0 0 -1

8 [F4D.0008](#)

DIM	4
N_FACETS	7
N_VERTICES	12
F_VECTOR	12 24 19 7
H_STAR_VECTOR	1 115 360 115 1
N_LATTICE_POINTS	120
N_BOUNDARY_LATTICE_POINTS	119
LATTICE_VOLUME	592
FACETS	1 -1 0 0 0 1 0 0 0 -1 1 0 1 0 1 1 0 -1 0 0 1 0 0 0 1 1 0 0 -1 0 1/2 1/2 0 1/2 1

9 [F4D.0009](#)

DIM	4
N_FACETS	7
N_VERTICES	12
F_VECTOR	12 24 19 7
H_STAR_VECTOR	1 112 350 112 1
N_LATTICE_POINTS	117
N_BOUNDARY_LATTICE_POINTS	116
LATTICE_VOLUME	576

FACETS	1 -1 0 0 0 1 0 0 0 -1 1 0 -1 0 0 1 0 -1 1 0 1 0 1 0 0 1 0 0 -1 0 1 1 0 -2 1
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10 [F4D.0010](#)

DIM	4
N_FACETS	8
N_VERTICES	15
F_VECTOR	15 30 23 8
H_STAR_VECTOR	1 76 228 76 1
N_LATTICE_POINTS	81
N_BOUNDARY_LATTICE_POINTS	80
LATTICE_VOLUME	382
FACETS	1 0 1 0 -1 1 0 -1 0 1 1 0 0 -1 0 1 0 -1 0 0 1 -1 0 0 0 1 0 0 0 -1 1 0 1 0 0 1/2 1/2 -1 1/2 1

11 [F4D.0011](#)

DIM	4
N_FACETS	8
N_VERTICES	16
F_VECTOR	16 32 24 8
H_STAR_VECTOR	1 97 300 97 1
N_LATTICE_POINTS	102
N_BOUNDARY_LATTICE_POINTS	101
LATTICE_VOLUME	496
FACETS	1 0 -1 0 0 1 -1 0 1 0 1 0 0 0 -1 1 -1 0 0 1 1 -1 0 0 0 1/2 -1/2 1/2 0 1 1 0 0 -1 0 1 1 0 0 -1

12 [F4D.0012](#)

DIM	4
N_FACETS	8
N_VERTICES	16
F_VECTOR	16 32 24 8
H_STAR_VECTOR	1 82 249 82 1
N_LATTICE_POINTS	87
N_BOUNDARY_LATTICE_POINTS	86
LATTICE_VOLUME	415

FACETS	1 -1 0 0 0 1 1 0 1 1 1 0 0 -1 1 1 0 0 -1 0 1 0 -1 0 0 1 -1 1 0 0 1 0 0 0 -1 1 0 0 0 1
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13

[F4D.0013](#)

DIM	4
N_FACETS	7
N_VERTICES	12
F_VECTOR	12 24 19 7
H_STAR_VECTOR	1 109 340 109 1
N_LATTICE_POINTS	114
N_BOUNDARY_LATTICE_POINTS	113
LATTICE_VOLUME	560
FACETS	1 -1 0 0 0 1 0 -1 0 0 1 0 0 0 -1 1 0 0 -1 0 1 -1 0 1 0 1/2 1/2 1/2 0 1 1 0 0 0 1

14

[F4D.0014](#)

DIM	4
N_FACETS	8
N_VERTICES	16
F_VECTOR	16 32 24 8
H_STAR_VECTOR	1 85 261 85 1
N_LATTICE_POINTS	90
N_BOUNDARY_LATTICE_POINTS	89
LATTICE_VOLUME	433
FACETS	1 0 0 -1 1 1/2 -1/2 1/2 1 0 1 -1 0 1 0 1 0 -1 0 0 1 -1 0 0 0 1 0 0 -1 0 1 0 0 0 -1 1 1 0 -1 0

15

[F4D.0015](#)

DIM	4
N_FACETS	8
N_VERTICES	16
F_VECTOR	16 32 24 8
H_STAR_VECTOR	1 79 240 79 1
N_LATTICE_POINTS	84
N_BOUNDARY_LATTICE_POINTS	83
LATTICE_VOLUME	400

FACETS	1 0 0 -1 0 1 -1 0 0 0 1 0 0 0 -1 1 1 0 0 -1 1 0 1 0 0 1/2 -1/2 0 1/2 1 1 -1 0 0 1 1 0 -1 0 0
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16

[F4D.0016](#)

DIM	4
N_FACETS	8
N_VERTICES	16
F_VECTOR	16 32 24 8
H_STAR_VECTOR	1 67 201 67 1
N_LATTICE_POINTS	72
N_BOUNDARY_LATTICE_POINTS	71
LATTICE_VOLUME	337
FACETS	1 0 0 -1 0 1 -1 0 0 1 1 1 0 0 -1 1 0 -1 0 0 1/2 -1/2 0 1/2 1 1 1 1 0 -1 1 -1 0 0 0 1 0 0 0 -1

17

[F4D.0017](#)

DIM	4
N_FACETS	7
N_VERTICES	13
F_VECTOR	13 26 20 7
H_STAR_VECTOR	1 88 272 88 1
N_LATTICE_POINTS	93
N_BOUNDARY_LATTICE_POINTS	92
LATTICE_VOLUME	450
FACETS	1 0 0 0 -1 1/2 -1/2 1/2 1 0 1 -1 0 1 0 1 0 -1 0 0 1 -1 0 0 0 1 0 0 -1 0 1 1 0 -1 1

18

[F4D.0018](#)

DIM	4
N_FACETS	7
N_VERTICES	12
F_VECTOR	12 24 19 7
H_STAR_VECTOR	1 97 300 97 1
N_LATTICE_POINTS	102
N_BOUNDARY_LATTICE_POINTS	101
LATTICE_VOLUME	496

FACETS	1 -1 0 0 0 1 0 0 0 -1 1 0 1 0 0 1 0 -1 0 0 1 0 0 0 1 1 0 0 -1 0 1/2 1/2 0 1/2 1
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[F4D.0019](#)

DIM	4
N_FACETS	7
N_VERTICES	12
F_VECTOR	12 24 19 7
H_STAR_VECTOR	1 79 240 79 1
N_LATTICE_POINTS	84
N_BOUNDARY_LATTICE_POINTS	83
LATTICE_VOLUME	400
FACETS	1 -1 0 0 0 1 0 0 0 -1 1 0 1 0 -1 1 0 -1 0 0 1 0 0 0 1 1 0 0 -1 0 1/2 1/2 0 1/2 1

20

[F4D.0020](#)

DIM	4
N_FACETS	6
N_VERTICES	9
F_VECTOR	9 18 15 6
H_STAR_VECTOR	1 115 362 115 1
N_LATTICE_POINTS	120
N_BOUNDARY_LATTICE_POINTS	119
LATTICE_VOLUME	594
FACETS	1 0 -1 0 0 1 0 0 0 -1 1 1 -2 1 0 1 -1 0 0 0 1 0 0 -1 0 1 0 1 0 1

21

[F4D.0021](#)

DIM	4
N_FACETS	9
N_VERTICES	21
F_VECTOR	21 42 30 9
H_STAR_VECTOR	1 61 181 61 1
N_LATTICE_POINTS	66
N_BOUNDARY_LATTICE_POINTS	65
LATTICE_VOLUME	305



FACETS		1 0 0 -1 0 1 0 0 1 0 1 0 0 0 1 1 0 -1 0 0 1 -1 0 0 0 1 0 0 0 -1 1 0 1 0 0 1 1 -1 -1 1 1 0 1 0 -1
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22

F4D.0022

DIM		4
N_FACETS		8
N_VERTICES		17
F_VECTOR		17 34 25 8
H_STAR_VECTOR		1 73 221 73 1
N_LATTICE_POINTS		78
N_BOUNDARY_LATTICE_POINTS		77
LATTICE_VOLUME		369
FACETS		1 0 0 1 0 1 -1 0 0 0 1 0 0 -1 0 1 0 0 0 -1 1 0 1 -1 0 1 0 -1 0 0 1 0 0 0 1 1 1 -1 1 1

23

F4D.0023

DIM		4
N_FACETS		8
N_VERTICES		17
F_VECTOR		17 34 25 8
H_STAR_VECTOR		1 76 231 76 1
N_LATTICE_POINTS		81
N_BOUNDARY_LATTICE_POINTS		80
LATTICE_VOLUME		385
FACETS		1 -1 -1 1 1 1 0 0 -1 0 1 1 0 0 0 1 0 -1 0 0 1 0 1 0 0 1 0 0 0 -1 1 -1 0 0 0 1 1 1 -1 -1

24

F4D.0024

DIM		4
N_FACETS		9
N_VERTICES		23
F_VECTOR		23 46 32 9
H_STAR_VECTOR		1 61 183 61 1
N_LATTICE_POINTS		66
N_BOUNDARY_LATTICE_POINTS		65
LATTICE_VOLUME		307

FACETS		1 0 0 1 0
		1 1 0 0 0
		1 -1 0 0 0
		1 -1 -1 1 1
		1 0 0 0 -1
		1 0 -1 0 0
		1 0 1 0 0
		1 0 0 -1 0
		1 1 1 -1 -1

25 [F4D.0025](#)

DIM	4
N_FACETS	10
N_VERTICES	30
F_VECTOR	30 60 40 10
H_STAR_VECTOR	1 46 136 46 1
N_LATTICE_POINTS	51
N_BOUNDARY_LATTICE_POINTS	50
LATTICE_VOLUME	230
FACETS	1 1 0 0 0 1 0 0 1 0 1 -1 0 0 0 1 0 0 0 -1 1 -1 -1 1 1 1 0 0 -1 0 1 0 -1 0 0 1 0 0 0 1 1 1 1 -1 -1 1 0 1 0 0

26 [F4D.0026](#)

DIM	4
N_FACETS	7
N_VERTICES	13
F_VECTOR	13 26 20 7
H_STAR_VECTOR	1 85 261 85 1
N_LATTICE_POINTS	90
N_BOUNDARY_LATTICE_POINTS	89
LATTICE_VOLUME	433
FACETS	1 0 0 0 -1 1 0 0 -1 0 1 -1 0 0 0 1 0 -1 0 0 1 0 0 1 0 1 0 1 -1 1 1 1 0 0 1

27 [F4D.0027](#)

DIM	4
N_FACETS	8
N_VERTICES	17
F_VECTOR	17 34 25 8
H_STAR_VECTOR	1 65 194 65 1
N_LATTICE_POINTS	70
N_BOUNDARY_LATTICE_POINTS	69
LATTICE_VOLUME	326

FACETS	1 1 0 1 0 1 0 0 -1 0 1 0 0 -1 1 1 -1 0 0 0 1 0 -1 0 0 1 0 1 0 1 1 0 0 0 -1 1 0 0 1 -1
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28

[F4D.0028](#)

DIM	4
N_FACETS	8
N_VERTICES	15
F_VECTOR	15 30 23 8
H_STAR_VECTOR	1 99 305 99 1
N_LATTICE_POINTS	104
N_BOUNDARY_LATTICE_POINTS	103
LATTICE_VOLUME	505
FACETS	1 -1 0 0 0 1 0 0 0 1 1 0 -1 0 0 1 0 0 -1 0 1 0 -1 0 1 1 0 0 0 -1 1 1 -2 1 1 1 0 1 0 0

29

[F4D.0029](#)

DIM	4
N_FACETS	9
N_VERTICES	18
F_VECTOR	18 36 27 9
H_STAR_VECTOR	1 71 210 71 1
N_LATTICE_POINTS	76
N_BOUNDARY_LATTICE_POINTS	75
LATTICE_VOLUME	354
FACETS	1 0 -1 0 1 1 0 0 -1 0 1 0 1 0 0 1 -1 0 0 0 1 0 -1 0 0 1 0 0 0 -1 1 0 1 0 -1 1 1 -2 1 1 1 0 0 0 1

30

[F4D.0030](#)

DIM	4
N_FACETS	8
N_VERTICES	16
F_VECTOR	16 32 24 8
H_STAR_VECTOR	1 87 266 87 1
N_LATTICE_POINTS	92
N_BOUNDARY_LATTICE_POINTS	91
LATTICE_VOLUME	442

FACETS	1 -1 0 0 1 1 0 -1 0 0 1 -1 0 0 0 1 0 -1 1 1 1 -1 1 0 1 1 0 0 -1 0 1 0 0 0 -1 1 1 0 0 -1
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31 [F4D.0031](#)

DIM	4
N_FACETS	8
N_VERTICES	15
F_VECTOR	15 30 23 8
H_STAR_VECTOR	1 81 245 81 1
N_LATTICE_POINTS	86
N_BOUNDARY_LATTICE_POINTS	85
LATTICE_VOLUME	409
FACETS	1 0 1 -1 0 1 0 0 1 0 1 1 -1 -1 1 1 0 -1 0 0 1 -1 0 0 0 1 0 0 -1 0 1 0 0 0 -1 1 0 1 0 0

32 [F4D.0032](#)

DIM	4
N_FACETS	7
N_VERTICES	12
F_VECTOR	12 24 19 7
H_STAR_VECTOR	1 109 340 109 1
N_LATTICE_POINTS	114
N_BOUNDARY_LATTICE_POINTS	113
LATTICE_VOLUME	560
FACETS	1 -1 0 0 0 1 0 0 0 -1 1 0 1 0 1 1 0 -1 0 0 1 0 0 0 1 1 0 0 -1 0 1 1 -1 1 1

33 [F4D.0033](#)

DIM	4
N_FACETS	8
N_VERTICES	17
F_VECTOR	17 34 25 8
H_STAR_VECTOR	1 82 251 82 1
N_LATTICE_POINTS	87
N_BOUNDARY_LATTICE_POINTS	86
LATTICE_VOLUME	417

FACETS	1 -1 0 0 1 1 -1 0 0 0 1 0 -1 1 1 1 0 0 0 -1 1 0 -1 0 0 1 0 0 -1 0 1 -1 1 0 0 1 1 0 0 0
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34 [F4D.0034](#)

DIM	4
N_FACETS	9
N_VERTICES	21
F_VECTOR	21 42 30 9
H_STAR_VECTOR	1 64 191 64 1
N_LATTICE_POINTS	69
N_BOUNDARY_LATTICE_POINTS	68
LATTICE_VOLUME	321
FACETS	1 -1 0 0 0 1 0 0 0 -1 1 0 0 -1 0 1 -1 1 1 1 1 0 -1 0 0 1 1 0 -1 0 1 -1 0 1 0 1 -1 0 0 1 1 1 0 0 0

35 [F4D.0035](#)

DIM	4
N_FACETS	9
N_VERTICES	21
F_VECTOR	21 42 30 9
H_STAR_VECTOR	1 62 184 62 1
N_LATTICE_POINTS	67
N_BOUNDARY_LATTICE_POINTS	66
LATTICE_VOLUME	310
FACETS	1 0 0 -1 1 1 0 0 -1 0 1 1 -1 1 0 1 -1 1 0 0 1 0 1 0 0 1 -1 0 0 0 1 0 -1 0 0 1 0 0 0 -1 1 0 0 0 1

36 [F4D.0036](#)

DIM	4
N_FACETS	8
N_VERTICES	18
F_VECTOR	18 36 26 8
H_STAR_VECTOR	1 65 195 65 1
N_LATTICE_POINTS	70
N_BOUNDARY_LATTICE_POINTS	69
LATTICE_VOLUME	327

FACETS	1 -1 1 0 0 1 0 0 0 -1 1 1 0 0 1 1 0 0 -1 0 1 -1 0 0 0 1 0 -1 0 0 1 0 1 1 0 1 1 0 1 1
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37 [F4D.0037](#)

DIM	4
N_FACETS	9
N_VERTICES	24
F_VECTOR	24 48 33 9
H_STAR_VECTOR	1 50 147 50 1
N_LATTICE_POINTS	55
N_BOUNDARY_LATTICE_POINTS	54
LATTICE_VOLUME	249
FACETS	1 0 1 -1 1 1 0 0 -1 0 1 1 -1 1 0 1 0 1 0 1 1 0 0 0 -1 1 -1 0 0 0 1 -1 1 0 0 1 0 -1 0 0 1 1 -1 1 -1

38 [F4D.0038](#)

DIM	4
N_FACETS	8
N_VERTICES	18
F_VECTOR	18 36 26 8
H_STAR_VECTOR	1 64 192 64 1
N_LATTICE_POINTS	69
N_BOUNDARY_LATTICE_POINTS	68
LATTICE_VOLUME	322
FACETS	1 -1 1 0 0 1 0 0 0 -1 1 1 -1 -1 1 1 0 0 -1 0 1 -1 0 0 0 1 0 -1 0 0 1 0 1 1 0 1 1 -1 0 1

39 [F4D.0039](#)

DIM	4
N_FACETS	8
N_VERTICES	17
F_VECTOR	17 34 25 8
H_STAR_VECTOR	1 73 221 73 1
N_LATTICE_POINTS	78
N_BOUNDARY_LATTICE_POINTS	77
LATTICE_VOLUME	369

FACETS	1 -1 0 0 0 1 0 0 0 -1 1 0 0 -1 0 1 0 -1 1 1 1 -1 0 0 1 1 0 -1 0 0 1 0 1 0 -1 1 1 0 0 0
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40 [F4D.0040](#)

DIM	4
N_FACETS	8
N_VERTICES	16
F_VECTOR	16 32 24 8
H_STAR_VECTOR	1 76 230 76 1
N_LATTICE_POINTS	81
N_BOUNDARY_LATTICE_POINTS	80
LATTICE_VOLUME	384
FACETS	1 0 0 0 -1 1 0 -1 0 0 1 -1 1 0 0 1 -1 0 0 0 1 0 0 -1 0 1 0 1 0 0 1 1 -1 1 1 1 0 0 0 1

41 [F4D.0041](#)

DIM	4
N_FACETS	7
N_VERTICES	13
F_VECTOR	13 26 20 7
H_STAR_VECTOR	1 82 251 82 1
N_LATTICE_POINTS	87
N_BOUNDARY_LATTICE_POINTS	86
LATTICE_VOLUME	417
FACETS	1 0 -1 0 0 1 -1 0 0 0 1 1 0 -1 1 1 0 0 0 -1 1 0 0 -1 0 1 -1 0 1 0 1 1 1 0 1

42 [F4D.0042](#)

DIM	4
N_FACETS	7
N_VERTICES	13
F_VECTOR	13 26 20 7
H_STAR_VECTOR	1 80 244 80 1
N_LATTICE_POINTS	85
N_BOUNDARY_LATTICE_POINTS	84
LATTICE_VOLUME	406

	FACETS	1 0 0 -1 0 1 -1 0 0 0 1 -1 1 0 1 1 0 -1 0 0 1 0 0 1 1 1 0 0 0 -1 1 1 0 0 -1
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43 [F4D.0043](#)

	DIM	4
	N_FACETS	7
	N_VERTICES	12
	F_VECTOR	12 24 19 7
	H_STAR_VECTOR	1 91 280 91 1
	N_LATTICE_POINTS	96
	N_BOUNDARY_LATTICE_POINTS	95
	LATTICE_VOLUME	464
	FACETS	1 -1 0 0 0 1 0 0 0 -1 1 0 1 0 0 1 0 -1 0 0 1 0 0 0 1 1 0 0 -1 0 1 1 -1 1 1

44 [F4D.0044](#)

	DIM	4
	N_FACETS	8
	N_VERTICES	15
	F_VECTOR	15 30 23 8
	H_STAR_VECTOR	1 70 209 70 1
	N_LATTICE_POINTS	75
	N_BOUNDARY_LATTICE_POINTS	74
	LATTICE_VOLUME	351
	FACETS	1 1 -1 -1 1 1 0 0 1 0 1 0 -1 0 0 1 -1 0 0 0 1 0 0 -1 0 1 0 0 0 -1 1 0 1 1 0 1 0 1 0 0

45 [F4D.0045](#)

	DIM	4
	N_FACETS	7
	N_VERTICES	12
	F_VECTOR	12 24 19 7
	H_STAR_VECTOR	1 85 260 85 1
	N_LATTICE_POINTS	90
	N_BOUNDARY_LATTICE_POINTS	89
	LATTICE_VOLUME	432



	FACETS	1 -1 0 0 0 1 0 -1 0 0 1 0 0 0 -1 1 0 1 0 0 1 0 0 -1 0 1 0 1 0 1 1 1 0 1 1
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46 [F4D.0046](#)

	DIM	4
	N_FACETS	6
	N_VERTICES	9
	F_VECTOR	9 18 15 6
	H_STAR_VECTOR	1 100 311 100 1
	N_LATTICE_POINTS	105
	N_BOUNDARY_LATTICE_POINTS	104
	LATTICE_VOLUME	513
	FACETS	1 0 -1 0 0 1 0 0 0 -1 1 1 0 1 1 1 -1 0 0 0 1 0 0 -1 0 1 0 1 0 1

47 [F4D.0047](#)

	DIM	4
	N_FACETS	9
	N_VERTICES	20
	F_VECTOR	20 40 29 9
	H_STAR_VECTOR	1 87 266 87 1
	N_LATTICE_POINTS	92
	N_BOUNDARY_LATTICE_POINTS	91
	LATTICE_VOLUME	442
	FACETS	1 1 -1 0 1 1 0 0 0 1 1 0 0 -1 0 1 -1 0 0 0 1 0 -1 1 1 1 0 -1 0 0 1 0 1 0 0 1 0 -1 0 1 1 0 0 0 -1

48 [F4D.0048](#)

	DIM	4
	N_FACETS	10
	N_VERTICES	24
	F_VECTOR	24 48 34 10
	H_STAR_VECTOR	1 62 182 62 1
	N_LATTICE_POINTS	67
	N_BOUNDARY_LATTICE_POINTS	66
	LATTICE_VOLUME	308

FACETS	1 1 -1 0 1 1 0 0 -1 0 1 0 -1 0 1 1 0 0 0 1 1 0 -1 1 1 1 -1 0 0 0 1 0 -1 0 0 1 0 0 0 -1 1 0 1 0 0 1 0 1 0 -1
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49	<a href="#">F4D.0049</a>
DIM	4
N_FACETS	9
N_VERTICES	20
F_VECTOR	20 40 29 9
H_STAR_VECTOR	1 78 236 78 1
N_LATTICE_POINTS	83
N_BOUNDARY_LATTICE_POINTS	82
LATTICE_VOLUME	394
FACETS	1 1 -1 0 1 1 0 0 0 1 1 0 0 -1 0 1 -1 0 0 0 1 0 1 0 -1 1 0 -1 1 1 1 0 -1 0 0 1 0 -1 0 1 1 0 0 0 -1

50	<a href="#">F4D.0050</a>
DIM	4
N_FACETS	8
N_VERTICES	16
F_VECTOR	16 32 24 8
H_STAR_VECTOR	1 94 290 94 1
N_LATTICE_POINTS	99
N_BOUNDARY_LATTICE_POINTS	98
LATTICE_VOLUME	480
FACETS	1 0 0 0 1 1 0 0 -1 0 1 -1 0 0 0 1 0 0 0 -1 1 0 1 0 1 1 0 -1 0 0 1 0 0 1 1 1 1 0 0 1

51	<a href="#">F4D.0051</a>
DIM	4
N_FACETS	8
N_VERTICES	16
F_VECTOR	16 32 24 8
H_STAR_VECTOR	1 91 280 91 1
N_LATTICE_POINTS	96
N_BOUNDARY_LATTICE_POINTS	95
LATTICE_VOLUME	464

	FACETS	1 0 -1 0 0 1 0 0 0 -1 1 0 -1 1 0 1 0 0 -1 1 1 -1 0 0 0 1 0 0 -1 0 1 1 0 -1 0 1 0 1 0 0
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52 [F4D.0052](#)

	DIM	4
	N_FACETS	9
	N_VERTICES	20
	F_VECTOR	20 40 29 9
	H_STAR_VECTOR	1 66 196 66 1
	N_LATTICE_POINTS	71
	N_BOUNDARY_LATTICE_POINTS	70
	LATTICE_VOLUME	330
	FACETS	1 0 0 0 -1 1 -1 0 0 0 1 0 -1 0 1 1 0 0 -1 0 1 0 -1 1 1 1 0 -1 0 0 1 0 1 0 -1 1 0 1 0 0 1 1 -1 0 1

53 [F4D.0053](#)

	DIM	4
	N_FACETS	9
	N_VERTICES	20
	F_VECTOR	20 40 29 9
	H_STAR_VECTOR	1 80 243 80 1
	N_LATTICE_POINTS	85
	N_BOUNDARY_LATTICE_POINTS	84
	LATTICE_VOLUME	405
	FACETS	1 0 -1 0 0 1 -1 0 0 1 1 0 0 0 1 1 -1 1 0 1 1 -1 0 1 0 1 -1 0 0 0 1 0 0 -1 0 1 0 0 0 -1 1 1 0 0 0

54 [F4D.0054](#)

	DIM	4
	N_FACETS	10
	N_VERTICES	24
	F_VECTOR	24 48 34 10
	H_STAR_VECTOR	1 60 176 60 1
	N_LATTICE_POINTS	65
	N_BOUNDARY_LATTICE_POINTS	64
	LATTICE_VOLUME	298

FACETS	1 0 0 -1 1 -1 0 1 0 1 -1 1 0 1 1 0 -1 0 0 1 -1 0 0 0 1 1 0 0 -1 1 0 0 -1 0 1 -1 0 0 1 1 0 0 0 1 1 1 0 0 0
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55 [F4D.0055](#)

DIM	4
N_FACETS	9
N_VERTICES	20
F_VECTOR	20 40 29 9
H_STAR_VECTOR	1 80 243 80 1
N_LATTICE_POINTS	85
N_BOUNDARY_LATTICE_POINTS	84
LATTICE_VOLUME	405
FACETS	1 -1 1 0 0 1 -1 0 0 0 1 0 -1 0 0 1 0 0 0 1 1 0 0 -1 0 1 0 0 0 -1 1 0 0 1 1 1 1 0 1 1 1 0 0 1 0

56 [F4D.0056](#)

DIM	4
N_FACETS	10
N_VERTICES	24
F_VECTOR	24 48 34 10
H_STAR_VECTOR	1 60 176 60 1
N_LATTICE_POINTS	65
N_BOUNDARY_LATTICE_POINTS	64
LATTICE_VOLUME	298
FACETS	1 0 0 1 0 1 -1 1 0 0 1 0 0 -1 1 1 0 -1 0 0 1 1 0 0 1 1 -1 0 0 0 1 0 0 -1 0 1 0 0 0 1 1 0 0 0 -1 1 0 0 1 -1

57 [F4D.0057](#)

DIM	4
N_FACETS	9
N_VERTICES	20
F_VECTOR	20 40 29 9
H_STAR_VECTOR	1 74 223 74 1
N_LATTICE_POINTS	79

N_BOUNDARY_LATTICE_POINTS	78
LATTICE_VOLUME	373
FACETS	1 0 -1 0 0 1 1 0 0 1 1 -1 1 0 0 1 -1 0 0 0 1 0 0 0 1 1 0 0 -1 0 1 0 0 -1 1 1 0 0 0 -1 1 0 0 1 0

58 [F4D.0058](#)

DIM	4
N_FACETS	9
N_VERTICES	20
F_VECTOR	20 40 29 9
H_STAR_VECTOR	1 68 203 68 1
N_LATTICE_POINTS	73
N_BOUNDARY_LATTICE_POINTS	72
LATTICE_VOLUME	341
FACETS	1 0 0 -1 0 1 0 -1 1 0 1 -1 0 0 1 1 0 -1 0 0 1 1 -1 0 0 1 -1 0 0 0 1 0 0 0 -1 1 0 1 0 0 1 1 0 0 0

59 [F4D.0059](#)

DIM	4
N_FACETS	8
N_VERTICES	16
F_VECTOR	16 32 24 8
H_STAR_VECTOR	1 88 270 88 1
N_LATTICE_POINTS	93
N_BOUNDARY_LATTICE_POINTS	92
LATTICE_VOLUME	448
FACETS	1 1 0 0 1 1 -1 0 1 0 1 0 0 0 -1 1 0 0 -1 0 1 0 -1 0 0 1 -1 0 0 0 1 0 0 0 1 1 0 1 0 1

60 [F4D.0060](#)

DIM	4
N_FACETS	9
N_VERTICES	20
F_VECTOR	20 40 29 9
H_STAR_VECTOR	1 66 197 66 1
N_LATTICE_POINTS	71
N_BOUNDARY_LATTICE_POINTS	70

LATTICE_VOLUME	331
FACETS	1 0 -1 0 0 1 -1 0 1 0 1 0 0 0 -1 1 0 0 -1 1 1 -1 0 0 0 1 -1 1 1 0 1 0 0 1 0 1 0 0 -1 0 1 1 0 0 0

61 [F4D.0061](#)

DIM	4
N_FACETS	10
N_VERTICES	24
F_VECTOR	24 48 34 10
H_STAR_VECTOR	1 56 164 56 1
N_LATTICE_POINTS	61
N_BOUNDARY_LATTICE_POINTS	60
LATTICE_VOLUME	278
FACETS	1 0 0 -1 0 1 0 0 -1 1 1 -1 1 1 0 1 0 -1 0 0 1 -1 0 0 0 1 0 0 0 -1 1 -1 0 1 0 1 1 0 -1 0 1 0 0 1 0 1 1 0 0 0

62 [F4D.0062](#)

DIM	4
N_FACETS	9
N_VERTICES	20
F_VECTOR	20 40 29 9
H_STAR_VECTOR	1 72 217 72 1
N_LATTICE_POINTS	77
N_BOUNDARY_LATTICE_POINTS	76
LATTICE_VOLUME	363
FACETS	1 0 -1 0 0 1 -1 0 1 0 1 0 0 0 -1 1 0 0 -1 1 1 -1 0 0 0 1 -1 1 1 0 1 0 0 1 0 1 0 0 -1 0 1 1 0 -1 0

63 [F4D.0063](#)

DIM	4
N_FACETS	9
N_VERTICES	21
F_VECTOR	21 42 30 9
H_STAR_VECTOR	1 66 198 66 1
N_LATTICE_POINTS	71

N_BOUNDARY_LATTICE_POINTS	70
LATTICE_VOLUME	332
FACETS	1 0 -1 0 0 1 0 0 1 0 1 0 0 0 -1 1 -1 0 1 0 1 -1 0 0 0 1 0 1 0 1 1 -1 1 1 0 1 0 0 -1 0 1 1 0 0 0

64 [F4D.0064](#)

DIM	4
N_FACETS	9
N_VERTICES	20
F_VECTOR	20 40 29 9
H_STAR_VECTOR	1 73 220 73 1
N_LATTICE_POINTS	78
N_BOUNDARY_LATTICE_POINTS	77
LATTICE_VOLUME	368
FACETS	1 0 0 -1 0 1 0 -1 0 0 1 -1 0 0 1 1 -1 0 0 0 1 0 1 0 0 1 1 0 0 0 1 -1 0 1 1 1 0 0 0 -1 1 0 0 0 1

65 [F4D.0065](#)

DIM	4
N_FACETS	10
N_VERTICES	24
F_VECTOR	24 48 34 10
H_STAR_VECTOR	1 58 170 58 1
N_LATTICE_POINTS	63
N_BOUNDARY_LATTICE_POINTS	62
LATTICE_VOLUME	288
FACETS	1 0 0 0 -1 1 1 0 0 0 1 -1 0 0 1 1 0 -1 0 0 1 0 0 -1 0 1 1 0 0 -1 1 -1 0 1 1 1 0 0 0 1 1 -1 0 0 0 1 0 1 0 0

66 [F4D.0066](#)

DIM	4
N_FACETS	10
N_VERTICES	24
F_VECTOR	24 48 34 10
H_STAR_VECTOR	1 54 158 54 1

N_LATTICE_POINTS	59
N_BOUNDARY_LATTICE_POINTS	58
LATTICE_VOLUME	268
FACETS	1 0 0 -1 0 1 -1 0 0 1 1 1 0 0 -1 1 -1 0 1 1 1 0 -1 0 0 1 -1 0 0 0 1 0 0 0 1 1 0 0 0 -1 1 1 1 0 -1 1 1 0 0 0

67

[F4D.0067](#)

DIM	4
N_FACETS	9
N_VERTICES	20
F_VECTOR	20 40 29 9
H_STAR_VECTOR	1 70 210 70 1
N_LATTICE_POINTS	75
N_BOUNDARY_LATTICE_POINTS	74
LATTICE_VOLUME	352
FACETS	1 0 0 -1 0 1 0 -1 0 0 1 -1 0 0 1 1 -1 0 0 0 1 0 1 0 0 1 -1 0 1 1 1 0 0 0 -1 1 1 0 0 -1 1 0 0 0 1

68

[F4D.0068](#)

DIM	4
N_FACETS	9
N_VERTICES	20
F_VECTOR	20 40 29 9
H_STAR_VECTOR	1 62 184 62 1
N_LATTICE_POINTS	67
N_BOUNDARY_LATTICE_POINTS	66
LATTICE_VOLUME	310
FACETS	1 1 1 0 -1 1 0 0 0 1 1 0 0 -1 0 1 0 -1 0 0 1 1 0 0 -1 1 -1 0 1 1 1 -1 0 0 0 1 -1 0 0 1 1 0 0 0 -1

69

[F4D.0069](#)

DIM	4
N_FACETS	8
N_VERTICES	16
F_VECTOR	16 32 24 8



H_STAR_VECTOR	1 81 247 81 1
N_LATTICE_POINTS	86
N_BOUNDARY_LATTICE_POINTS	85
LATTICE_VOLUME	411
FACETS	1 0 0 0 -1 1 1 0 0 1 1 -1 0 1 0 1 -1 0 0 0 1 -1 1 1 0 1 0 -1 0 0 1 0 0 -1 0 1 0 0 1 0

70 [F4D.0070](#)

DIM	4
N_FACETS	8
N_VERTICES	16
F_VECTOR	16 32 24 8
H_STAR_VECTOR	1 77 234 77 1
N_LATTICE_POINTS	82
N_BOUNDARY_LATTICE_POINTS	81
LATTICE_VOLUME	390
FACETS	1 0 0 0 -1 1 1 0 -1 1 1 -1 0 1 0 1 -1 0 0 0 1 -1 1 1 0 1 0 -1 0 0 1 0 0 -1 0 1 0 0 1 0

71 [F4D.0071](#)

DIM	4
N_FACETS	8
N_VERTICES	16
F_VECTOR	16 32 24 8
H_STAR_VECTOR	1 82 250 82 1
N_LATTICE_POINTS	87
N_BOUNDARY_LATTICE_POINTS	86
LATTICE_VOLUME	416
FACETS	1 0 0 1 1 1 0 0 -1 0 1 0 -1 0 0 1 0 0 0 -1 1 -1 0 0 0 1 1 0 0 1 1 0 0 0 1 1 0 1 0 0

72 [F4D.0072](#)

DIM	4
N_FACETS	8
N_VERTICES	16
F_VECTOR	16 32 24 8
H_STAR_VECTOR	1 70 210 70 1
N_LATTICE_POINTS	75

N_BOUNDARY_LATTICE_POINTS	74
LATTICE_VOLUME	352
FACETS	1 0 0 1 1 1 0 0 -1 0 1 0 -1 0 0 1 0 0 0 -1 1 -1 0 0 0 1 1 0 0 1 1 0 0 0 1 1 0 1 0 -1

73 [F4D.0073](#)

DIM	4
N_FACETS	7
N_VERTICES	12
F_VECTOR	12 24 19 7
H_STAR_VECTOR	1 95 294 95 1
N_LATTICE_POINTS	100
N_BOUNDARY_LATTICE_POINTS	99
LATTICE_VOLUME	486
FACETS	1 0 0 0 -1 1 0 -1 0 0 1 -1 0 0 0 1 0 -1 1 0 1 0 0 -1 0 1 0 1 0 1 1 1 -1 0 0

74 [F4D.0074](#)

DIM	4
N_FACETS	10
N_VERTICES	25
F_VECTOR	25 50 35 10
H_STAR_VECTOR	1 59 174 59 1
N_LATTICE_POINTS	64
N_BOUNDARY_LATTICE_POINTS	63
LATTICE_VOLUME	294
FACETS	1 0 0 1 0 1 0 0 0 -1 1 0 0 1 1 1 -1 1 0 0 1 0 0 0 1 1 0 0 -1 0 1 -1 0 0 0 1 0 1 0 0 1 0 -1 0 0 1 1 0 0 0

75 [F4D.0075](#)

DIM	4
N_FACETS	11
N_VERTICES	30
F_VECTOR	30 60 41 11
H_STAR_VECTOR	1 51 148 51 1
N_LATTICE_POINTS	56
N_BOUNDARY_LATTICE_POINTS	55
LATTICE_VOLUME	252

FACETS	1 0 0 1 0 1 0 0 0 -1 1 0 0 1 1 1 1 -1 0 0 1 0 0 0 1 1 0 -1 0 0 1 -1 0 0 0 1 0 0 -1 0 1 -1 1 0 0 1 0 1 0 0 1 1 0 0 0
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76 [F4D.0076](#)

DIM	4
N_FACETS	12
N_VERTICES	36
F_VECTOR	36 72 48 12
H_STAR_VECTOR	1 44 126 44 1
N_LATTICE_POINTS	49
N_BOUNDARY_LATTICE_POINTS	48
LATTICE_VOLUME	216
FACETS	1 0 0 1 -1 1 0 0 0 -1 1 0 0 1 0 1 0 0 -1 0 1 0 0 0 1 1 0 -1 0 0 1 1 -1 0 0 1 -1 0 0 0 1 0 0 -1 1 1 -1 1 0 0 1 0 1 0 0 1 1 0 0 0

77 [F4D.0077](#)

DIM	4
N_FACETS	9
N_VERTICES	20
F_VECTOR	20 40 29 9
H_STAR_VECTOR	1 65 193 65 1
N_LATTICE_POINTS	70
N_BOUNDARY_LATTICE_POINTS	69
LATTICE_VOLUME	325
FACETS	1 -1 0 1 0 1 0 0 0 -1 1 0 -1 0 0 1 0 1 1 1 1 0 0 1 0 1 1 0 -1 0 1 0 0 1 1 1 -1 0 0 0 1 0 0 -1 0

78 [F4D.0078](#)

DIM	4
N_FACETS	10
N_VERTICES	24
F_VECTOR	24 48 34 10

H_STAR_VECTOR	1 58 170 58 1
N_LATTICE_POINTS	63
N_BOUNDARY_LATTICE_POINTS	62
LATTICE_VOLUME	288
FACETS	1 0 0 -1 0 1 0 0 0 -1 1 -1 0 0 0 1 0 -1 0 0 1 1 0 0 0 1 0 -1 1 0 1 -1 0 0 1 1 0 0 0 1 1 1 0 0 -1 1 0 1 0 0

79 [F4D.0079](#)

DIM	4
N_FACETS	9
N_VERTICES	20
F_VECTOR	20 40 29 9
H_STAR_VECTOR	1 67 200 67 1
N_LATTICE_POINTS	72
N_BOUNDARY_LATTICE_POINTS	71
LATTICE_VOLUME	336
FACETS	1 0 0 0 1 1 0 0 -1 0 1 0 0 0 -1 1 1 0 0 0 1 -1 0 0 0 1 0 1 0 1 1 -1 0 1 0 1 0 -1 0 0 1 0 0 1 0

80 [F4D.0080](#)

DIM	4
N_FACETS	8
N_VERTICES	16
F_VECTOR	16 32 24 8
H_STAR_VECTOR	1 71 213 71 1
N_LATTICE_POINTS	76
N_BOUNDARY_LATTICE_POINTS	75
LATTICE_VOLUME	357
FACETS	1 -1 0 1 0 1 0 0 0 -1 1 0 -1 0 0 1 1 1 0 1 1 -1 0 0 0 1 0 0 1 0 1 0 0 -1 0 1 1 0 0 1

81 [F4D.0081](#)

DIM	4
N_FACETS	8
N_VERTICES	16
F_VECTOR	16 32 24 8

H_STAR_VECTOR	1 85 260 85 1
N_LATTICE_POINTS	90
N_BOUNDARY_LATTICE_POINTS	89
LATTICE_VOLUME	432
FACETS	1 0 0 -1 0 1 0 0 0 1 1 0 -1 0 0 1 -1 0 0 0 1 -1 1 1 0 1 -1 0 1 0 1 0 0 0 -1 1 1 0 0 1

82 [F4D.0082](#)

DIM	4
N_FACETS	8
N_VERTICES	16
F_VECTOR	16 32 24 8
H_STAR_VECTOR	1 76 230 76 1
N_LATTICE_POINTS	81
N_BOUNDARY_LATTICE_POINTS	80
LATTICE_VOLUME	384
FACETS	1 1 -1 0 0 1 0 0 0 1 1 0 0 -1 0 1 0 -1 0 0 1 0 0 0 -1 1 -1 0 0 0 1 0 1 0 0 1 0 0 1 1

83 [F4D.0083](#)

DIM	4
N_FACETS	9
N_VERTICES	20
F_VECTOR	20 40 29 9
H_STAR_VECTOR	1 60 177 60 1
N_LATTICE_POINTS	65
N_BOUNDARY_LATTICE_POINTS	64
LATTICE_VOLUME	299
FACETS	1 0 0 0 -1 1 -1 0 0 0 1 0 1 1 0 1 0 0 -1 1 1 0 0 1 0 1 0 -1 0 0 1 0 0 -1 0 1 0 1 0 0 1 1 -1 0 0

84 [F4D.0084](#)

DIM	4
N_FACETS	8
N_VERTICES	16
F_VECTOR	16 32 24 8
H_STAR_VECTOR	1 70 210 70 1
N_LATTICE_POINTS	75

N_BOUNDARY_LATTICE_POINTS	74
LATTICE_VOLUME	352
FACETS	1 0 1 0 0 1 0 0 0 -1 1 0 0 -1 0 1 0 -1 0 0 1 -1 0 0 0 1 0 1 0 1 1 0 1 1 1 1 1 -1 0 0

85 [F4D.0085](#)

DIM	4
N_FACETS	7
N_VERTICES	12
F_VECTOR	12 24 19 7
H_STAR_VECTOR	1 80 243 80 1
N_LATTICE_POINTS	85
N_BOUNDARY_LATTICE_POINTS	84
LATTICE_VOLUME	405
FACETS	1 0 0 0 -1 1 0 -1 0 0 1 -1 0 0 0 1 0 -1 1 0 1 0 0 -1 0 1 0 1 0 1 1 1 1 0 1

86 [F4D.0086](#)

DIM	4
N_FACETS	8
N_VERTICES	17
F_VECTOR	17 34 25 8
H_STAR_VECTOR	1 72 218 72 1
N_LATTICE_POINTS	77
N_BOUNDARY_LATTICE_POINTS	76
LATTICE_VOLUME	364
FACETS	1 0 0 -1 0 1 0 0 0 -1 1 0 1 1 0 1 -1 0 0 0 1 0 -1 0 0 1 1 -1 0 1 1 1 0 0 1 1 1 0 1 1

87 [F4D.0087](#)

DIM	4
N_FACETS	8
N_VERTICES	16
F_VECTOR	16 32 24 8
H_STAR_VECTOR	1 77 233 77 1
N_LATTICE_POINTS	82
N_BOUNDARY_LATTICE_POINTS	81
LATTICE_VOLUME	389

FACETS	1 -1 0 0 0 1 0 1 0 -1 1 0 -1 0 0 1 0 -1 1 1 1 0 0 -1 0 1 0 -1 0 1 1 0 0 0 -1 1 1 0 0 1
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88

[F4D.0088](#)

DIM	4
N_FACETS	8
N_VERTICES	16
F_VECTOR	16 32 24 8
H_STAR_VECTOR	1 76 230 76 1
N_LATTICE_POINTS	81
N_BOUNDARY_LATTICE_POINTS	80
LATTICE_VOLUME	384
FACETS	1 0 0 -1 0 1 0 1 0 0 1 0 -1 0 0 1 0 -1 1 0 1 0 0 -1 1 1 -1 0 0 0 1 1 -1 1 0 1 0 0 0 -1

89

[F4D.0089](#)

DIM	4
N_FACETS	8
N_VERTICES	16
F_VECTOR	16 32 24 8
H_STAR_VECTOR	1 76 230 76 1
N_LATTICE_POINTS	81
N_BOUNDARY_LATTICE_POINTS	80
LATTICE_VOLUME	384
FACETS	1 0 -1 0 0 1 -1 0 0 0 1 0 1 1 1 1 0 0 0 -1 1 0 0 -1 0 1 -1 1 1 0 1 -1 0 1 0 1 1 0 -1 0

90

[F4D.0090](#)

DIM	4
N_FACETS	8
N_VERTICES	16
F_VECTOR	16 32 24 8
H_STAR_VECTOR	1 79 240 79 1
N_LATTICE_POINTS	84
N_BOUNDARY_LATTICE_POINTS	83
LATTICE_VOLUME	400

FACETS	1 1 0 0 0 1 0 -1 0 0 1 0 0 -1 0 1 0 -1 1 0 1 0 0 -1 1 1 -1 0 0 0 1 0 1 0 0 1 0 0 0 -1
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91 [F4D.0091](#)

DIM	4
N_FACETS	9
N_VERTICES	20
F_VECTOR	20 40 29 9
H_STAR_VECTOR	1 64 190 64 1
N_LATTICE_POINTS	69
N_BOUNDARY_LATTICE_POINTS	68
LATTICE_VOLUME	320
FACETS	1 0 0 0 -1 1 -1 0 0 0 1 0 -1 0 1 1 0 0 -1 0 1 0 -1 1 1 1 0 -1 0 0 1 0 1 0 -1 1 0 1 0 0 1 1 0 0 0

92 [F4D.0092](#)

DIM	4
N_FACETS	8
N_VERTICES	16
F_VECTOR	16 32 24 8
H_STAR_VECTOR	1 69 207 69 1
N_LATTICE_POINTS	74
N_BOUNDARY_LATTICE_POINTS	73
LATTICE_VOLUME	347
FACETS	1 -1 0 0 0 1 0 1 0 -1 1 0 -1 0 0 1 0 -1 1 1 1 0 0 -1 0 1 0 -1 0 1 1 0 0 0 -1 1 1 1 0 0

93 [F4D.0093](#)

DIM	4
N_FACETS	7
N_VERTICES	12
F_VECTOR	12 24 19 7
H_STAR_VECTOR	1 90 277 90 1
N_LATTICE_POINTS	95
N_BOUNDARY_LATTICE_POINTS	94
LATTICE_VOLUME	459



	FACETS	1 0 0 -1 0 1 1 1 0 1 1 -1 0 0 0 1 0 0 0 -1 1 0 -1 0 0 1 0 -1 1 0 1 1 0 0 1
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94 [F4D.0094](#)

	DIM	4
	N_FACETS	8
	N_VERTICES	15
	F_VECTOR	15 30 23 8
	H_STAR_VECTOR	1 88 269 88 1
	N_LATTICE_POINTS	93
	N_BOUNDARY_LATTICE_POINTS	92
	LATTICE_VOLUME	447
	FACETS	1 0 1 0 0 1 0 1 0 1 1 0 -1 0 0 1 -1 0 0 0 1 0 0 0 -1 1 0 0 -1 0 1 1 1 1 1 1 0 0 0 1

95 [F4D.0095](#)

	DIM	4
	N_FACETS	9
	N_VERTICES	18
	F_VECTOR	18 36 27 9
	H_STAR_VECTOR	1 67 198 67 1
	N_LATTICE_POINTS	72
	N_BOUNDARY_LATTICE_POINTS	71
	LATTICE_VOLUME	334
	FACETS	1 0 -1 0 1 1 0 0 0 1 1 0 0 -1 0 1 0 1 0 -1 1 -1 0 0 0 1 0 -1 0 0 1 0 0 0 -1 1 0 1 0 0 1 1 0 1 1

96 [F4D.0096](#)

	DIM	4
	N_FACETS	8
	N_VERTICES	15
	F_VECTOR	15 30 23 8
	H_STAR_VECTOR	1 82 249 82 1
	N_LATTICE_POINTS	87
	N_BOUNDARY_LATTICE_POINTS	86
	LATTICE_VOLUME	415

FACETS	1 -1 0 0 0 1 0 0 0 1 1 0 0 -1 0 1 0 -1 0 0 1 0 0 0 -1 1 0 -1 0 1 1 0 1 0 0 1 1 0 1 1
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97 [F4D.0097](#)

DIM	4
N_FACETS	9
N_VERTICES	20
F_VECTOR	20 40 29 9
H_STAR_VECTOR	1 67 200 67 1
N_LATTICE_POINTS	72
N_BOUNDARY_LATTICE_POINTS	71
LATTICE_VOLUME	336
FACETS	1 0 0 1 1 1 0 0 0 -1 1 0 1 0 0 1 -1 0 0 0 1 0 -1 0 0 1 0 0 -1 0 1 0 0 1 0 1 0 0 0 1 1 1 0 0 0

98 [F4D.0098](#)

DIM	4
N_FACETS	10
N_VERTICES	24
F_VECTOR	24 48 34 10
H_STAR_VECTOR	1 58 170 58 1
N_LATTICE_POINTS	63
N_BOUNDARY_LATTICE_POINTS	62
LATTICE_VOLUME	288
FACETS	1 0 0 0 -1 1 0 0 0 1 1 0 0 1 -1 1 0 -1 0 0 1 0 0 1 0 1 0 0 -1 1 1 0 0 -1 0 1 -1 0 0 0 1 1 0 0 0 1 0 1 0 0

99 [F4D.0099](#)

DIM	4
N_FACETS	9
N_VERTICES	18
F_VECTOR	18 36 27 9
H_STAR_VECTOR	1 65 192 65 1
N_LATTICE_POINTS	70
N_BOUNDARY_LATTICE_POINTS	69
LATTICE_VOLUME	324

FACETS	1 0 -1 1 0
	1 0 0 1 0
	1 0 0 0 -1
	1 -1 0 0 0
	1 0 -1 0 0
	1 0 0 -1 0
	1 0 1 -1 0
	1 1 0 0 1
	1 0 1 0 0

100

[F4D.0100](#)

DIM	4
N_FACETS	8
N_VERTICES	15
F_VECTOR	15 30 23 8
H_STAR_VECTOR	1 73 219 73 1
N_LATTICE_POINTS	78
N_BOUNDARY_LATTICE_POINTS	77
LATTICE_VOLUME	367
FACETS	1 0 1 0 0
	1 0 0 1 0
	1 1 -1 0 1
	1 0 -1 0 0
	1 -1 0 0 0
	1 0 0 -1 0
	1 0 0 0 -1
	1 0 1 1 0

101

[F4D.0101](#)

DIM	4
N_FACETS	8
N_VERTICES	15
F_VECTOR	15 30 23 8
H_STAR_VECTOR	1 75 226 75 1
N_LATTICE_POINTS	80
N_BOUNDARY_LATTICE_POINTS	79
LATTICE_VOLUME	378
FACETS	1 0 1 0 0
	1 0 0 1 0
	1 0 1 1 0
	1 0 -1 0 0
	1 -1 0 0 0
	1 0 0 -1 0
	1 0 0 0 -1
	1 1 0 0 1

102

[F4D.0102](#)

DIM	4
N_FACETS	8
N_VERTICES	16
F_VECTOR	16 32 24 8
H_STAR_VECTOR	1 73 220 73 1
N_LATTICE_POINTS	78
N_BOUNDARY_LATTICE_POINTS	77
LATTICE_VOLUME	368

FACETS	1 0 0 1 0 1 0 0 0 -1 1 0 -1 0 0 1 0 0 -1 0 1 -1 0 0 0 1 0 1 1 1 1 0 1 0 1 1 1 0 0 0
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103 [F4D.0103](#)

DIM	4
N_FACETS	7
N_VERTICES	11
F_VECTOR	11 22 18 7
H_STAR_VECTOR	1 85 259 85 1
N_LATTICE_POINTS	90
N_BOUNDARY_LATTICE_POINTS	89
LATTICE_VOLUME	431
FACETS	1 0 -1 0 0 1 0 0 0 -1 1 -1 0 0 0 1 0 0 -1 0 1 0 0 1 0 1 1 1 0 1 1 1 1 1 1

104 [F4D.0104](#)

DIM	4
N_FACETS	7
N_VERTICES	11
F_VECTOR	11 22 18 7
H_STAR_VECTOR	1 96 295 96 1
N_LATTICE_POINTS	101
N_BOUNDARY_LATTICE_POINTS	100
LATTICE_VOLUME	489
FACETS	1 0 0 -1 0 1 -2 1 1 1 1 -1 0 0 0 1 0 0 0 -1 1 1 0 0 0 1 0 -1 0 0 1 1 0 0 -1

105 [F4D.0105](#)

DIM	4
N_FACETS	7
N_VERTICES	12
F_VECTOR	12 24 19 7
H_STAR_VECTOR	1 97 300 97 1
N_LATTICE_POINTS	102
N_BOUNDARY_LATTICE_POINTS	101
LATTICE_VOLUME	496

FACETS	1 -1 0 0 0 1 0 0 0 -1 1 0 -1 0 0 1 0 0 0 1 1 0 0 -1 0 1 0 1 0 1 1 1 0 1 1
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106 [F4D.0106](#)

DIM	4
N_FACETS	7
N_VERTICES	12
F_VECTOR	12 24 19 7
H_STAR_VECTOR	1 91 280 91 1
N_LATTICE_POINTS	96
N_BOUNDARY_LATTICE_POINTS	95
LATTICE_VOLUME	464
FACETS	1 -1 0 0 0 1 0 -1 0 0 1 0 0 0 -1 1 0 0 -1 0 1 0 0 0 1 1 1 1 1 1 1 1 0 1 1

107 [F4D.0107](#)

DIM	4
N_FACETS	7
N_VERTICES	12
F_VECTOR	12 24 19 7
H_STAR_VECTOR	1 94 290 94 1
N_LATTICE_POINTS	99
N_BOUNDARY_LATTICE_POINTS	98
LATTICE_VOLUME	480
FACETS	1 -1 0 0 0 1 0 0 0 -1 1 0 -1 0 0 1 0 0 0 1 1 0 0 -1 0 1 0 1 0 1 1 1 1 1 1

108 [F4D.0108](#)

DIM	4
N_FACETS	7
N_VERTICES	13
F_VECTOR	13 26 20 7
H_STAR_VECTOR	1 79 241 79 1
N_LATTICE_POINTS	84
N_BOUNDARY_LATTICE_POINTS	83
LATTICE_VOLUME	401

FACETS	1 0 0 -1 1 -1 0 0 1 0 1 1 0 1 0 0 -1 0 1 -1 1 0 0 1 0 -1 0 0 1 1 -1 0 1
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109

F4D.0109

DIM	4
N_FACETS	8
N_VERTICES	16
F_VECTOR	16 32 24 8
H_STAR_VECTOR	1 76 230 76 1
N_LATTICE_POINTS	81
N_BOUNDARY_LATTICE_POINTS	80
LATTICE_VOLUME	384
FACETS	1 1 0 0 0 1 0 0 0 1 1 0 0 -1 0 1 0 -1 0 0 1 0 0 0 -1 1 -1 0 0 0 1 0 1 0 0 1 0 0 1 1

110

F4D.0110

DIM	4
N_FACETS	8
N_VERTICES	16
F_VECTOR	16 32 24 8
H_STAR_VECTOR	1 70 210 70 1
N_LATTICE_POINTS	75
N_BOUNDARY_LATTICE_POINTS	74
LATTICE_VOLUME	352
FACETS	1 0 1 0 -1 1 0 0 -1 0 1 0 -1 0 0 1 0 0 0 -1 1 -1 0 0 0 1 0 0 1 1 1 0 0 0 1 1 1 0 0 0

111

F4D.0111

DIM	4
N_FACETS	7
N_VERTICES	12
F_VECTOR	12 24 19 7
H_STAR_VECTOR	1 85 260 85 1
N_LATTICE_POINTS	90
N_BOUNDARY_LATTICE_POINTS	89
LATTICE_VOLUME	432

FACETS	1 0 0 -1 1 0 -1 0 0 1 -1 0 0 0 1 0 -1 1 0 1 0 0 -1 0 1 0 1 0 1 1 1 0 0 0
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112

[F4D.0112](#)

DIM	4
N_FACETS	7
N_VERTICES	12
F_VECTOR	12 24 19 7
H_STAR_VECTOR	1 85 260 85 1
N_LATTICE_POINTS	90
N_BOUNDARY_LATTICE_POINTS	89
LATTICE_VOLUME	432
FACETS	1 -1 0 0 0 1 0 0 -1 0 1 0 -1 0 0 1 0 0 1 0 1 0 0 0 -1 1 0 1 1 0 1 1 0 0 1

113

[F4D.0113](#)

DIM	4
N_FACETS	7
N_VERTICES	12
F_VECTOR	12 24 19 7
H_STAR_VECTOR	1 79 240 79 1
N_LATTICE_POINTS	84
N_BOUNDARY_LATTICE_POINTS	83
LATTICE_VOLUME	400
FACETS	1 -1 0 0 0 1 0 0 -1 0 1 0 -1 0 0 1 0 0 1 0 1 0 0 0 -1 1 0 1 1 0 1 1 0 -1 1

114

[F4D.0114](#)

DIM	4
N_FACETS	6
N_VERTICES	8
F_VECTOR	8 16 14 6
H_STAR_VECTOR	1 100 310 100 1
N_LATTICE_POINTS	105
N_BOUNDARY_LATTICE_POINTS	104
LATTICE_VOLUME	512
FACETS	1 0 0 0 -1 1 -1 0 0 0 1 1 1 0 1 1 0 -1 0 0 1 0 0 -1 0 1 0 -1 1 0

115	<a href="#">F4D.0115</a>	
	DIM	4
	N_FACETS	6
	N_VERTICES	8
	F_VECTOR	8 16 14 6
	H_STAR_VECTOR	1 124 390 124 1
	N_LATTICE_POINTS	129
	N_BOUNDARY_LATTICE_POINTS	128
	LATTICE_VOLUME	640
	FACETS	1 0 0 0 -1 1 -1 0 0 0 1 0 -1 0 0 1 0 0 -1 0 1/2 1/2 1/2 1/2 1 1 0 0 0 1
116	<a href="#">F4D.0116</a>	
	DIM	4
	N_FACETS	7
	N_VERTICES	12
	F_VECTOR	12 24 19 7
	H_STAR_VECTOR	1 88 270 88 1
	N_LATTICE_POINTS	93
	N_BOUNDARY_LATTICE_POINTS	92
	LATTICE_VOLUME	448
	FACETS	1 -1 0 0 0 1 0 0 0 -1 1 0 1 0 0 1 0 -1 0 0 1 0 0 0 1 1 0 0 -1 0 1 1 0 1 1
117	<a href="#">F4D.0117</a>	
	DIM	4
	N_FACETS	6
	N_VERTICES	9
	F_VECTOR	9 18 15 6
	H_STAR_VECTOR	1 100 311 100 1
	N_LATTICE_POINTS	105
	N_BOUNDARY_LATTICE_POINTS	104
	LATTICE_VOLUME	513
	FACETS	1 0 -1 0 0 1 0 0 0 -1 1 1 -1 1 0 1 -1 0 0 0 1 0 0 -1 0 1 0 1 0 1
118	<a href="#">F4D.0118</a>	
	DIM	4
	N_FACETS	8
	N_VERTICES	16
	F_VECTOR	16 32 24 8
	H_STAR_VECTOR	1 76 230 76 1



N_LATTICE_POINTS	81
N_BOUNDARY_LATTICE_POINTS	80
LATTICE_VOLUME	384
FACETS	1 0 0 1 1 0 0 -1 0 1 -1 0 0 0 1 0 0 0 -1 1 0 1 0 0 1 0 -1 0 0 1 0 0 1 0 1 1 0 0 0

119 [F4D.0119](#)

DIM	4
N_FACETS	7
N_VERTICES	12
F_VECTOR	12 24 19 7
H_STAR_VECTOR	1 85 260 85 1
N_LATTICE_POINTS	90
N_BOUNDARY_LATTICE_POINTS	89
LATTICE_VOLUME	432
FACETS	1 0 -1 0 0 1 1 0 0 0 1 -1 0 0 0 1 0 0 -1 0 1 0 0 0 -1 1 0 0 1 0 1 0 1 0 1

120 [F4D.0120](#)

DIM	4
N_FACETS	6
N_VERTICES	8
F_VECTOR	8 16 14 6
H_STAR_VECTOR	1 106 330 106 1
N_LATTICE_POINTS	111
N_BOUNDARY_LATTICE_POINTS	110
LATTICE_VOLUME	544
FACETS	1 0 0 0 -1 1 -1 0 0 0 1 0 -1 0 0 1 0 0 -1 0 1 1 1 1 1 1 0 0 0 1

121 [F4D.0121](#)

DIM	4
N_FACETS	6
N_VERTICES	8
F_VECTOR	8 16 14 6
H_STAR_VECTOR	1 100 310 100 1
N_LATTICE_POINTS	105
N_BOUNDARY_LATTICE_POINTS	104
LATTICE_VOLUME	512

FACETS	1 0 0 -1 0 1 -1 0 0 0 1 0 -1 0 0 1 0 0 0 -1 1 1 1 0 1 1 0 0 1 0
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122

F4D.0122

DIM	4
N_FACETS	6
N_VERTICES	9
F_VECTOR	9 18 15 6
H_STAR_VECTOR	1 95 294 95 1
N_LATTICE_POINTS	100
N_BOUNDARY_LATTICE_POINTS	99
LATTICE_VOLUME	486
FACETS	1 0 -1 0 0 1 0 0 0 -1 1 1 0 1 0 1 -1 0 0 0 1 0 0 -1 0 1 0 1 0 1

123

F4D.0123

DIM	4
N_FACETS	5
N_VERTICES	5
F_VECTOR	5 10 10 5
H_STAR_VECTOR	1 121 381 121 1
N_LATTICE_POINTS	126
N_BOUNDARY_LATTICE_POINTS	125
LATTICE_VOLUME	625
FACETS	1 -1 0 0 0 1 1 1 1 1 1 0 -1 0 0 1 0 0 -1 0 1 0 0 0 -1