

Σ of type G2

subset H	type of H	single cell	free	orbit basis
		CHAMBER	(FREE)	(YES)
1	A_1	CHAMBER	(FREE)	(YES)
2	A_1	CHAMBER	(FREE)	(YES)
1, 2	G_2	CHAMBER	(FREE)	(YES)

Σ of type F4

subset H	type of H	single cell	free	orbit basis
		CHAMBER	(FREE)	(YES)
1	A_1	CHAMBER	(FREE)	(YES)
2	A_1	CHAMBER	(FREE)	(YES)
3	A_1	CHAMBER	(FREE)	(YES)
4	A_1	CHAMBER	(FREE)	(YES)
1, 2	A_2	CHAMBER	(FREE)	(YES)
3, 4	A_2	CHAMBER	(FREE)	(YES)
2, 3	B_2	CHAMBER	(FREE)	(YES)
1, 2, 3	B_3	no	FREE	YES
2, 3, 4	C_3	no	no	(YES)
1, 2, 3, 4	F_4	CHAMBER	(FREE)	(YES)
1, 3	$A_1 \times A_1$	no	FREE	YES
1, 4	$A_1 \times A_1$	no	FREE	YES
2, 4	$A_1 \times A_1$	no	FREE	YES
1, 2, 4	$A_1 \times A_2$	no	FREE	YES
1, 3, 4	$A_1 \times A_2$	no	FREE	YES

Σ of type E6

subset H	type of H	single cell	free	orbit basis
		CHAMBER	(FREE)	(YES)
1	A_1	CHAMBER	(FREE)	(YES)
2	A_1	CHAMBER	(FREE)	(YES)
3	A_1	CHAMBER	(FREE)	(YES)
4	A_1	CHAMBER	(FREE)	(YES)
5	A_1	CHAMBER	(FREE)	(YES)
6	A_1	CHAMBER	(FREE)	(YES)
1, 3	A_2	CHAMBER	(FREE)	(YES)
2, 4	A_2	CHAMBER	(FREE)	(YES)
3, 4	A_2	CHAMBER	(FREE)	(YES)
4, 5	A_2	CHAMBER	(FREE)	(YES)
5, 6	A_2	CHAMBER	(FREE)	(YES)
1, 3, 4	A_3	CHAMBER	(FREE)	(YES)
2, 3, 4	A_3	CHAMBER	(FREE)	(YES)
2, 4, 5	A_3	CHAMBER	(FREE)	(YES)
3, 4, 5	A_3	CHAMBER	(FREE)	(YES)
4, 5, 6	A_3	CHAMBER	(FREE)	(YES)
1, 2, 3, 4	A_4	CHAMBER	(FREE)	(YES)
1, 3, 4, 5	A_4	CHAMBER	(FREE)	(YES)
2, 4, 5, 6	A_4	CHAMBER	(FREE)	(YES)
3, 4, 5, 6	A_4	CHAMBER	(FREE)	(YES)
1, 3, 4, 5, 6	A_5	no	FREE	YES
2, 3, 4, 5	D_4	no	no	(no)
1, 2, 3, 4, 5	D_5	no	no	(no)
2, 3, 4, 5, 6	D_5	no	no	(no)
1, 2, 3, 4, 5, 6	E_6	CHAMBER	(FREE)	(YES)
1, 2	$A_1 \times A_1$	no	FREE	no
1, 4	$A_1 \times A_1$	no	FREE	no
1, 5	$A_1 \times A_1$	no	FREE	no
1, 6	$A_1 \times A_1$	no	FREE	no
2, 3	$A_1 \times A_1$	no	FREE	no
2, 5	$A_1 \times A_1$	no	FREE	no
2, 6	$A_1 \times A_1$	no	FREE	no
3, 5	$A_1 \times A_1$	no	FREE	no
3, 6	$A_1 \times A_1$	no	FREE	no
4, 6	$A_1 \times A_1$	no	FREE	no
1, 2, 3	$A_1 \times A_2$	no	FREE	no
1, 2, 4	$A_1 \times A_2$	no	FREE	no
1, 3, 5	$A_1 \times A_2$	no	FREE	no
1, 3, 6	$A_1 \times A_2$	no	FREE	no

1, 4, 5	$A_1 \times A_2$	no	FREE	no
1, 5, 6	$A_1 \times A_2$	no	FREE	no
2, 4, 6	$A_1 \times A_2$	no	FREE	no
2, 5, 6	$A_1 \times A_2$	no	FREE	no
3, 4, 6	$A_1 \times A_2$	no	FREE	no
3, 5, 6	$A_1 \times A_2$	no	FREE	no
1, 2, 4, 5	$A_1 \times A_3$	no	FREE	no
1, 3, 4, 6	$A_1 \times A_3$	no	FREE	no
1, 4, 5, 6	$A_1 \times A_3$	no	FREE	no
2, 3, 4, 6	$A_1 \times A_3$	no	FREE	no
1, 2, 3, 4, 6	$A_1 \times A_4$	no	FREE	no
1, 2, 4, 5, 6	$A_1 \times A_4$	no	FREE	no
1, 3, 5, 6	$A_2 \times A_2$	no	FREE	no
1, 2, 5	$A_1 \times A_1 \times A_1$	no	FREE	no
1, 2, 6	$A_1 \times A_1 \times A_1$	no	FREE	no
1, 4, 6	$A_1 \times A_1 \times A_1$	no	FREE	no
2, 3, 5	$A_1 \times A_1 \times A_1$	no	FREE	no
2, 3, 6	$A_1 \times A_1 \times A_1$	no	FREE	no
1, 2, 3, 5	$A_1 \times A_1 \times A_2$	no	FREE	no
1, 2, 3, 6	$A_1 \times A_1 \times A_2$	no	FREE	no
1, 2, 4, 6	$A_1 \times A_1 \times A_2$	no	FREE	no
1, 2, 5, 6	$A_1 \times A_1 \times A_2$	no	FREE	no
2, 3, 5, 6	$A_1 \times A_1 \times A_2$	no	FREE	no
1, 2, 3, 5, 6	$A_1 \times A_2 \times A_2$	no	FREE	no

Σ of type E7

subset H	type of H	single cell	free	orbit basis
1	A_1	CHAMBER	(FREE)	(YES)
2	A_1	CHAMBER	(FREE)	(YES)
3	A_1	CHAMBER	(FREE)	(YES)
4	A_1	CHAMBER	(FREE)	(YES)
5	A_1	CHAMBER	(FREE)	(YES)
6	A_1	CHAMBER	(FREE)	(YES)
7	A_1	CHAMBER	(FREE)	(YES)
1, 3	A_2	CHAMBER	(FREE)	(YES)
2, 4	A_2	CHAMBER	(FREE)	(YES)
3, 4	A_2	CHAMBER	(FREE)	(YES)
4, 5	A_2	CHAMBER	(FREE)	(YES)
5, 6	A_2	CHAMBER	(FREE)	(YES)
6, 7	A_2	CHAMBER	(FREE)	(YES)
1, 3, 4	A_3	CHAMBER	(FREE)	(YES)
2, 3, 4	A_3	CHAMBER	(FREE)	(YES)
2, 4, 5	A_3	CHAMBER	(FREE)	(YES)
3, 4, 5	A_3	CHAMBER	(FREE)	(YES)
4, 5, 6	A_3	CHAMBER	(FREE)	(YES)
5, 6, 7	A_3	CHAMBER	(FREE)	(YES)
1, 2, 3, 4	A_4	CHAMBER	(FREE)	(YES)
1, 3, 4, 5	A_4	CHAMBER	(FREE)	(YES)
2, 4, 5, 6	A_4	CHAMBER	(FREE)	(YES)
3, 4, 5, 6	A_4	CHAMBER	(FREE)	(YES)
4, 5, 6, 7	A_4	CHAMBER	(FREE)	(YES)
1, 3, 4, 5, 6	A_5	no	FREE	YES
2, 4, 5, 6, 7	A_5	CHAMBER	(FREE)	(YES)
3, 4, 5, 6, 7	A_5	no	FREE	YES
1, 3, 4, 5, 6, 7	A_6	no	FREE	YES
2, 3, 4, 5	D_4	no	no	(no)
1, 2, 3, 4, 5	D_5	no	no	(no)
2, 3, 4, 5, 6	D_5	no	no	(no)
2, 3, 4, 5, 6, 7	D_6	no	no	(no)
1, 2, 3, 4, 5, 6	E_6	CHAMBER	(FREE)	(YES)
1, 2, 3, 4, 5, 6, 7	E_7	CHAMBER	(FREE)	(YES)
1, 2	$A_1 \times A_1$	no	FREE	no
1, 4	$A_1 \times A_1$	no	FREE	no
1, 5	$A_1 \times A_1$	no	FREE	no
1, 6	$A_1 \times A_1$	no	FREE	no
1, 7	$A_1 \times A_1$	no	FREE	no

2, 3	$A_1 \times A_1$	no	FREE	no
2, 5	$A_1 \times A_1$	no	FREE	no
2, 6	$A_1 \times A_1$	no	FREE	no
2, 7	$A_1 \times A_1$	no	FREE	no
3, 5	$A_1 \times A_1$	no	FREE	no
3, 6	$A_1 \times A_1$	no	FREE	no
3, 7	$A_1 \times A_1$	no	FREE	no
4, 6	$A_1 \times A_1$	no	FREE	no
4, 7	$A_1 \times A_1$	no	FREE	no
5, 7	$A_1 \times A_1$	no	FREE	no
1, 2, 3	$A_1 \times A_2$	no	FREE	no
1, 2, 4	$A_1 \times A_2$	no	FREE	no
1, 3, 5	$A_1 \times A_2$	no	FREE	no
1, 3, 6	$A_1 \times A_2$	no	FREE	no
1, 3, 7	$A_1 \times A_2$	no	FREE	no
1, 4, 5	$A_1 \times A_2$	no	FREE	no
1, 5, 6	$A_1 \times A_2$	no	FREE	no
1, 6, 7	$A_1 \times A_2$	no	FREE	no
2, 4, 6	$A_1 \times A_2$	no	FREE	no
2, 4, 7	$A_1 \times A_2$	no	FREE	no
2, 5, 6	$A_1 \times A_2$	no	FREE	no
2, 6, 7	$A_1 \times A_2$	no	FREE	no
3, 4, 6	$A_1 \times A_2$	no	FREE	no
3, 4, 7	$A_1 \times A_2$	no	FREE	no
3, 5, 6	$A_1 \times A_2$	no	FREE	no
3, 6, 7	$A_1 \times A_2$	no	FREE	no
4, 5, 7	$A_1 \times A_2$	no	FREE	no
4, 6, 7	$A_1 \times A_2$	no	FREE	no
1, 2, 4, 5	$A_1 \times A_3$	no	FREE	no
1, 3, 4, 6	$A_1 \times A_3$	no	FREE	no
1, 3, 4, 7	$A_1 \times A_3$	no	FREE	no
1, 4, 5, 6	$A_1 \times A_3$	no	FREE	no
1, 5, 6, 7	$A_1 \times A_3$	no	FREE	no
2, 3, 4, 6	$A_1 \times A_3$	no	FREE	no
2, 3, 4, 7	$A_1 \times A_3$	no	FREE	no
2, 4, 5, 7	$A_1 \times A_3$	no	no	(no)
2, 5, 6, 7	$A_1 \times A_3$	no	no	(no)
3, 4, 5, 7	$A_1 \times A_3$	no	FREE	no
3, 5, 6, 7	$A_1 \times A_3$	no	FREE	no
1, 2, 3, 4, 6	$A_1 \times A_4$	no	FREE	no
1, 2, 3, 4, 7	$A_1 \times A_4$	no	FREE	no
1, 2, 4, 5, 6	$A_1 \times A_4$	no	FREE	no
1, 3, 4, 5, 7	$A_1 \times A_4$	no	FREE	no
1, 4, 5, 6, 7	$A_1 \times A_4$	no	FREE	no
1, 2, 4, 5, 6, 7	$A_1 \times A_5$	no	FREE	no
2, 3, 4, 5, 7	$A_1 \times D_4$	no	no	(no)

1, 2, 3, 4, 5, 7	$A_1 \times D_5$	no	no	(no)
1, 3, 5, 6	$A_2 \times A_2$	no	FREE	no
1, 3, 6, 7	$A_2 \times A_2$	no	FREE	no
2, 4, 6, 7	$A_2 \times A_2$	no	FREE	no
3, 4, 6, 7	$A_2 \times A_2$	no	FREE	no
1, 3, 4, 6, 7	$A_2 \times A_3$	no	FREE	no
1, 3, 5, 6, 7	$A_2 \times A_3$	no	FREE	no
2, 3, 4, 6, 7	$A_2 \times A_3$	no	FREE	no
1, 2, 3, 4, 6, 7	$A_2 \times A_4$	no	FREE	no
1, 2, 5	$A_1 \times A_1 \times A_1$	no	FREE	no
1, 2, 6	$A_1 \times A_1 \times A_1$	no	FREE	no
1, 2, 7	$A_1 \times A_1 \times A_1$	no	FREE	no
1, 4, 6	$A_1 \times A_1 \times A_1$	no	FREE	no
1, 4, 7	$A_1 \times A_1 \times A_1$	no	FREE	no
1, 5, 7	$A_1 \times A_1 \times A_1$	no	FREE	no
2, 3, 5	$A_1 \times A_1 \times A_1$	no	FREE	no
2, 3, 6	$A_1 \times A_1 \times A_1$	no	FREE	no
2, 3, 7	$A_1 \times A_1 \times A_1$	no	FREE	no
2, 5, 7	$A_1 \times A_1 \times A_1$	no	no	(no)
3, 5, 7	$A_1 \times A_1 \times A_1$	no	FREE	no
1, 2, 3, 5	$A_1 \times A_1 \times A_2$	no	FREE	no
1, 2, 3, 6	$A_1 \times A_1 \times A_2$	no	FREE	no
1, 2, 3, 7	$A_1 \times A_1 \times A_2$	no	FREE	no
1, 2, 4, 6	$A_1 \times A_1 \times A_2$	no	FREE	no
1, 2, 4, 7	$A_1 \times A_1 \times A_2$	no	FREE	no
1, 2, 5, 6	$A_1 \times A_1 \times A_2$	no	FREE	no
1, 2, 6, 7	$A_1 \times A_1 \times A_2$	no	FREE	no
1, 3, 5, 7	$A_1 \times A_1 \times A_2$	no	FREE	no
1, 4, 5, 7	$A_1 \times A_1 \times A_2$	no	FREE	no
1, 4, 6, 7	$A_1 \times A_1 \times A_2$	no	FREE	no
2, 3, 5, 6	$A_1 \times A_1 \times A_2$	no	FREE	no
2, 3, 6, 7	$A_1 \times A_1 \times A_2$	no	FREE	no
1, 2, 4, 5, 7	$A_1 \times A_1 \times A_3$	no	no	(no)
1, 2, 5, 6, 7	$A_1 \times A_1 \times A_3$	no	no	(no)
2, 3, 5, 6, 7	$A_1 \times A_1 \times A_3$	no	no	(no)
1, 2, 3, 5, 6	$A_1 \times A_2 \times A_2$	no	FREE	no
1, 2, 3, 6, 7	$A_1 \times A_2 \times A_2$	no	FREE	no
1, 2, 4, 6, 7	$A_1 \times A_2 \times A_2$	no	FREE	no
1, 2, 3, 5, 6, 7	$A_1 \times A_2 \times A_3$	no	no	(no)
1, 2, 5, 7	$A_1 \times A_1 \times A_1 \times A_1$	no	no	(no)
2, 3, 5, 7	$A_1 \times A_1 \times A_1 \times A_1$	no	no	(no)
1, 2, 3, 5, 7	$A_1 \times A_1 \times A_1 \times A_2$	no	no	(no)

Σ of type E8

subset H	type of H	single cell	free	orbit basis
1	A_1	CHAMBER	(FREE)	(???)
2	A_1	CHAMBER	(FREE)	(???)
3	A_1	CHAMBER	(FREE)	(???)
4	A_1	CHAMBER	(FREE)	(???)
5	A_1	CHAMBER	(FREE)	(???)
6	A_1	CHAMBER	(FREE)	(???)
7	A_1	CHAMBER	(FREE)	(???)
8	A_1	CHAMBER	(FREE)	(???)
1, 3	A_2	CHAMBER	(FREE)	(???)
2, 4	A_2	CHAMBER	(FREE)	(???)
3, 4	A_2	CHAMBER	(FREE)	(???)
4, 5	A_2	CHAMBER	(FREE)	(???)
5, 6	A_2	CHAMBER	(FREE)	(???)
6, 7	A_2	CHAMBER	(FREE)	(???)
7, 8	A_2	CHAMBER	(FREE)	(???)
1, 3, 4	A_3	CHAMBER	(FREE)	(???)
2, 3, 4	A_3	CHAMBER	(FREE)	(???)
2, 4, 5	A_3	CHAMBER	(FREE)	(???)
3, 4, 5	A_3	CHAMBER	(FREE)	(???)
4, 5, 6	A_3	CHAMBER	(FREE)	(???)
5, 6, 7	A_3	CHAMBER	(FREE)	(???)
6, 7, 8	A_3	CHAMBER	(FREE)	(???)
1, 2, 3, 4	A_4	CHAMBER	(FREE)	(???)
1, 3, 4, 5	A_4	CHAMBER	(FREE)	(???)
2, 4, 5, 6	A_4	CHAMBER	(FREE)	(???)
3, 4, 5, 6	A_4	CHAMBER	(FREE)	(???)
4, 5, 6, 7	A_4	CHAMBER	(FREE)	(???)
5, 6, 7, 8	A_4	CHAMBER	(FREE)	(???)
1, 3, 4, 5, 6	A_5	no	FREE	???
2, 4, 5, 6, 7	A_5	no	FREE	???
3, 4, 5, 6, 7	A_5	no	FREE	???
4, 5, 6, 7, 8	A_5	no	FREE	???
1, 3, 4, 5, 6, 7	A_6	no	FREE	???
2, 4, 5, 6, 7, 8	A_6	no	FREE	???
3, 4, 5, 6, 7, 8	A_6	no	FREE	???
1, 3, 4, 5, 6, 7, 8	A_7	no	FREE	???
2, 3, 4, 5	D_4	no	no	(???)
1, 2, 3, 4, 5	D_5	no	no	(???)
2, 3, 4, 5, 6	D_5	no	no	(???)

2, 3, 4, 5, 6, 7	D_6	no	no	(???)
2, 3, 4, 5, 6, 7, 8	D_7	no	no	(???)
1, 2, 3, 4, 5, 6	E_6	CHAMBER	(FREE)	(???)
1, 2, 3, 4, 5, 6, 7	E_7	no	no	(???)
1, 2, 3, 4, 5, 6, 7, 8	E_8	CHAMBER	(FREE)	(???)
1, 2	$A_1 \times A_1$	no	FREE	???
1, 4	$A_1 \times A_1$	no	FREE	???
1, 5	$A_1 \times A_1$	no	FREE	???
1, 6	$A_1 \times A_1$	no	FREE	???
1, 7	$A_1 \times A_1$	no	FREE	???
1, 8	$A_1 \times A_1$	no	FREE	???
2, 3	$A_1 \times A_1$	no	FREE	???
2, 5	$A_1 \times A_1$	no	FREE	???
2, 6	$A_1 \times A_1$	no	FREE	???
2, 7	$A_1 \times A_1$	no	FREE	???
2, 8	$A_1 \times A_1$	no	FREE	???
3, 5	$A_1 \times A_1$	no	FREE	???
3, 6	$A_1 \times A_1$	no	FREE	???
3, 7	$A_1 \times A_1$	no	FREE	???
3, 8	$A_1 \times A_1$	no	FREE	???
4, 6	$A_1 \times A_1$	no	FREE	???
4, 7	$A_1 \times A_1$	no	FREE	???
4, 8	$A_1 \times A_1$	no	FREE	???
5, 7	$A_1 \times A_1$	no	FREE	???
5, 8	$A_1 \times A_1$	no	FREE	???
6, 8	$A_1 \times A_1$	no	FREE	???
1, 2, 3	$A_1 \times A_2$	no	FREE	???
1, 2, 4	$A_1 \times A_2$	no	FREE	???
1, 3, 5	$A_1 \times A_2$	no	FREE	???
1, 3, 6	$A_1 \times A_2$	no	FREE	???
1, 3, 7	$A_1 \times A_2$	no	FREE	???
1, 3, 8	$A_1 \times A_2$	no	FREE	???
1, 4, 5	$A_1 \times A_2$	no	FREE	???
1, 5, 6	$A_1 \times A_2$	no	FREE	???
1, 6, 7	$A_1 \times A_2$	no	FREE	???
1, 7, 8	$A_1 \times A_2$	no	FREE	???
2, 4, 6	$A_1 \times A_2$	no	FREE	???
2, 4, 7	$A_1 \times A_2$	no	FREE	???
2, 4, 8	$A_1 \times A_2$	no	FREE	???
2, 5, 6	$A_1 \times A_2$	no	FREE	???
2, 6, 7	$A_1 \times A_2$	no	FREE	???
2, 7, 8	$A_1 \times A_2$	no	FREE	???
3, 4, 6	$A_1 \times A_2$	no	FREE	???
3, 4, 7	$A_1 \times A_2$	no	FREE	???
3, 4, 8	$A_1 \times A_2$	no	FREE	???
3, 5, 6	$A_1 \times A_2$	no	FREE	???

3, 6, 7	$A_1 \times A_2$	no	FREE	???
3, 7, 8	$A_1 \times A_2$	no	FREE	???
4, 5, 7	$A_1 \times A_2$	no	FREE	???
4, 5, 8	$A_1 \times A_2$	no	FREE	???
4, 6, 7	$A_1 \times A_2$	no	FREE	???
4, 7, 8	$A_1 \times A_2$	no	FREE	???
5, 6, 8	$A_1 \times A_2$	no	FREE	???
5, 7, 8	$A_1 \times A_2$	no	FREE	???
1, 2, 4, 5	$A_1 \times A_3$	no	FREE	???
1, 3, 4, 6	$A_1 \times A_3$	no	FREE	???
1, 3, 4, 7	$A_1 \times A_3$	no	FREE	???
1, 3, 4, 8	$A_1 \times A_3$	no	FREE	???
1, 4, 5, 6	$A_1 \times A_3$	no	FREE	???
1, 5, 6, 7	$A_1 \times A_3$	no	FREE	???
1, 6, 7, 8	$A_1 \times A_3$	no	FREE	???
2, 3, 4, 6	$A_1 \times A_3$	no	FREE	???
2, 3, 4, 7	$A_1 \times A_3$	no	FREE	???
2, 3, 4, 8	$A_1 \times A_3$	no	FREE	???
2, 4, 5, 7	$A_1 \times A_3$	no	FREE	???
2, 4, 5, 8	$A_1 \times A_3$	no	FREE	???
2, 5, 6, 7	$A_1 \times A_3$	no	FREE	???
2, 6, 7, 8	$A_1 \times A_3$	no	FREE	???
3, 4, 5, 7	$A_1 \times A_3$	no	FREE	???
3, 4, 5, 8	$A_1 \times A_3$	no	FREE	???
3, 5, 6, 7	$A_1 \times A_3$	no	FREE	???
3, 6, 7, 8	$A_1 \times A_3$	no	FREE	???
4, 5, 6, 8	$A_1 \times A_3$	no	FREE	???
4, 6, 7, 8	$A_1 \times A_3$	no	FREE	???
1, 2, 3, 4, 6	$A_1 \times A_4$	no	FREE	???
1, 2, 3, 4, 7	$A_1 \times A_4$	no	FREE	???
1, 2, 3, 4, 8	$A_1 \times A_4$	no	FREE	???
1, 2, 4, 5, 6	$A_1 \times A_4$	no	FREE	???
1, 3, 4, 5, 7	$A_1 \times A_4$	no	FREE	???
1, 3, 4, 5, 8	$A_1 \times A_4$	no	FREE	???
1, 4, 5, 6, 7	$A_1 \times A_4$	no	FREE	???
1, 5, 6, 7, 8	$A_1 \times A_4$	no	FREE	???
2, 4, 5, 6, 8	$A_1 \times A_4$	no	FREE	???
2, 5, 6, 7, 8	$A_1 \times A_4$	no	FREE	???
3, 4, 5, 6, 8	$A_1 \times A_4$	no	FREE	???
3, 5, 6, 7, 8	$A_1 \times A_4$	no	FREE	???
1, 2, 4, 5, 6, 7	$A_1 \times A_5$	no	FREE	???
1, 3, 4, 5, 6, 8	$A_1 \times A_5$	no	FREE	???
1, 4, 5, 6, 7, 8	$A_1 \times A_5$	no	FREE	???
1, 2, 4, 5, 6, 7, 8	$A_1 \times A_6$	no	FREE	???
2, 3, 4, 5, 7	$A_1 \times D_4$	no	no	(???)
2, 3, 4, 5, 8	$A_1 \times D_4$	no	no	(???)

1, 2, 3, 4, 5, 7	$A_1 \times D_5$	no	no	(???)
1, 2, 3, 4, 5, 8	$A_1 \times D_5$	no	no	(???)
2, 3, 4, 5, 6, 8	$A_1 \times D_5$	no	no	(???)
1, 2, 3, 4, 5, 6, 8	$A_1 \times E_6$	no	FREE	???
1, 3, 5, 6	$A_2 \times A_2$	no	FREE	???
1, 3, 6, 7	$A_2 \times A_2$	no	FREE	???
1, 3, 7, 8	$A_2 \times A_2$	no	FREE	???
2, 4, 6, 7	$A_2 \times A_2$	no	FREE	???
2, 4, 7, 8	$A_2 \times A_2$	no	FREE	???
3, 4, 6, 7	$A_2 \times A_2$	no	FREE	???
3, 4, 7, 8	$A_2 \times A_2$	no	FREE	???
4, 5, 7, 8	$A_2 \times A_2$	no	FREE	???
1, 3, 4, 6, 7	$A_2 \times A_3$	no	FREE	???
1, 3, 4, 7, 8	$A_2 \times A_3$	no	FREE	???
1, 3, 5, 6, 7	$A_2 \times A_3$	no	FREE	???
1, 3, 6, 7, 8	$A_2 \times A_3$	no	FREE	???
2, 3, 4, 6, 7	$A_2 \times A_3$	no	FREE	???
2, 3, 4, 7, 8	$A_2 \times A_3$	no	FREE	???
2, 4, 5, 7, 8	$A_2 \times A_3$	no	FREE	???
2, 4, 6, 7, 8	$A_2 \times A_3$	no	FREE	???
3, 4, 5, 7, 8	$A_2 \times A_3$	no	FREE	???
3, 4, 6, 7, 8	$A_2 \times A_3$	no	FREE	???
1, 2, 3, 4, 6, 7	$A_2 \times A_4$	no	FREE	???
1, 2, 3, 4, 7, 8	$A_2 \times A_4$	no	FREE	???
1, 3, 4, 5, 7, 8	$A_2 \times A_4$	no	FREE	???
1, 3, 5, 6, 7, 8	$A_2 \times A_4$	no	FREE	???
2, 3, 4, 5, 7, 8	$A_2 \times D_4$	no	no	(???)
1, 2, 3, 4, 5, 7, 8	$A_2 \times D_5$	no	no	(???)
1, 3, 4, 6, 7, 8	$A_3 \times A_3$	no	FREE	???
2, 3, 4, 6, 7, 8	$A_3 \times A_3$	no	FREE	???
1, 2, 3, 4, 6, 7, 8	$A_3 \times A_4$	no	FREE	???
1, 2, 5	$A_1 \times A_1 \times A_1$	no	FREE	???
1, 2, 6	$A_1 \times A_1 \times A_1$	no	FREE	???
1, 2, 7	$A_1 \times A_1 \times A_1$	no	FREE	???
1, 2, 8	$A_1 \times A_1 \times A_1$	no	FREE	???
1, 4, 6	$A_1 \times A_1 \times A_1$	no	FREE	???
1, 4, 7	$A_1 \times A_1 \times A_1$	no	FREE	???
1, 4, 8	$A_1 \times A_1 \times A_1$	no	FREE	???
1, 5, 7	$A_1 \times A_1 \times A_1$	no	FREE	???
1, 5, 8	$A_1 \times A_1 \times A_1$	no	FREE	???
1, 6, 8	$A_1 \times A_1 \times A_1$	no	FREE	???
2, 3, 5	$A_1 \times A_1 \times A_1$	no	FREE	???
2, 3, 6	$A_1 \times A_1 \times A_1$	no	FREE	???
2, 3, 7	$A_1 \times A_1 \times A_1$	no	FREE	???
2, 3, 8	$A_1 \times A_1 \times A_1$	no	FREE	???
2, 5, 7	$A_1 \times A_1 \times A_1$	no	FREE	???

2, 5, 8	$A_1 \times A_1 \times A_1$	no	FREE	???
2, 6, 8	$A_1 \times A_1 \times A_1$	no	FREE	???
3, 5, 7	$A_1 \times A_1 \times A_1$	no	FREE	???
3, 5, 8	$A_1 \times A_1 \times A_1$	no	FREE	???
3, 6, 8	$A_1 \times A_1 \times A_1$	no	FREE	???
4, 6, 8	$A_1 \times A_1 \times A_1$	no	FREE	???
1, 2, 3, 5	$A_1 \times A_1 \times A_2$	no	FREE	???
1, 2, 3, 6	$A_1 \times A_1 \times A_2$	no	FREE	???
1, 2, 3, 7	$A_1 \times A_1 \times A_2$	no	FREE	???
1, 2, 3, 8	$A_1 \times A_1 \times A_2$	no	FREE	???
1, 2, 4, 6	$A_1 \times A_1 \times A_2$	no	FREE	???
1, 2, 4, 7	$A_1 \times A_1 \times A_2$	no	FREE	???
1, 2, 4, 8	$A_1 \times A_1 \times A_2$	no	FREE	???
1, 2, 5, 6	$A_1 \times A_1 \times A_2$	no	FREE	???
1, 2, 6, 7	$A_1 \times A_1 \times A_2$	no	FREE	???
1, 2, 7, 8	$A_1 \times A_1 \times A_2$	no	FREE	???
1, 3, 5, 7	$A_1 \times A_1 \times A_2$	no	FREE	???
1, 3, 5, 8	$A_1 \times A_1 \times A_2$	no	FREE	???
1, 3, 6, 8	$A_1 \times A_1 \times A_2$	no	FREE	???
1, 4, 5, 7	$A_1 \times A_1 \times A_2$	no	FREE	???
1, 4, 5, 8	$A_1 \times A_1 \times A_2$	no	FREE	???
1, 4, 6, 7	$A_1 \times A_1 \times A_2$	no	FREE	???
1, 4, 7, 8	$A_1 \times A_1 \times A_2$	no	FREE	???
1, 5, 6, 8	$A_1 \times A_1 \times A_2$	no	FREE	???
1, 5, 7, 8	$A_1 \times A_1 \times A_2$	no	FREE	???
2, 3, 5, 6	$A_1 \times A_1 \times A_2$	no	FREE	???
2, 3, 6, 7	$A_1 \times A_1 \times A_2$	no	FREE	???
2, 3, 7, 8	$A_1 \times A_1 \times A_2$	no	FREE	???
2, 4, 6, 8	$A_1 \times A_1 \times A_2$	no	FREE	???
2, 5, 6, 8	$A_1 \times A_1 \times A_2$	no	FREE	???
2, 5, 7, 8	$A_1 \times A_1 \times A_2$	no	FREE	???
3, 4, 6, 8	$A_1 \times A_1 \times A_2$	no	FREE	???
3, 5, 6, 8	$A_1 \times A_1 \times A_2$	no	FREE	???
3, 5, 7, 8	$A_1 \times A_1 \times A_2$	no	FREE	???
1, 2, 4, 5, 7	$A_1 \times A_1 \times A_3$	no	FREE	???
1, 2, 4, 5, 8	$A_1 \times A_1 \times A_3$	no	FREE	???
1, 2, 5, 6, 7	$A_1 \times A_1 \times A_3$	no	FREE	???
1, 2, 6, 7, 8	$A_1 \times A_1 \times A_3$	no	FREE	???
1, 3, 4, 6, 8	$A_1 \times A_1 \times A_3$	no	FREE	???
1, 4, 5, 6, 8	$A_1 \times A_1 \times A_3$	no	FREE	???
1, 4, 6, 7, 8	$A_1 \times A_1 \times A_3$	no	FREE	???
2, 3, 4, 6, 8	$A_1 \times A_1 \times A_3$	no	FREE	???
2, 3, 5, 6, 7	$A_1 \times A_1 \times A_3$	no	FREE	???
2, 3, 6, 7, 8	$A_1 \times A_1 \times A_3$	no	FREE	???
1, 2, 3, 4, 6, 8	$A_1 \times A_1 \times A_4$	no	FREE	???
1, 2, 4, 5, 6, 8	$A_1 \times A_1 \times A_4$	no	FREE	???

1, 2, 5, 6, 7, 8	$A_1 \times A_1 \times A_4$	no	FREE	???
2, 3, 5, 6, 7, 8	$A_1 \times A_1 \times A_4$	no	FREE	???
1, 2, 3, 5, 6	$A_1 \times A_2 \times A_2$	no	FREE	???
1, 2, 3, 6, 7	$A_1 \times A_2 \times A_2$	no	FREE	???
1, 2, 3, 7, 8	$A_1 \times A_2 \times A_2$	no	FREE	???
1, 2, 4, 6, 7	$A_1 \times A_2 \times A_2$	no	FREE	???
1, 2, 4, 7, 8	$A_1 \times A_2 \times A_2$	no	FREE	???
1, 3, 5, 6, 8	$A_1 \times A_2 \times A_2$	no	FREE	???
1, 3, 5, 7, 8	$A_1 \times A_2 \times A_2$	no	FREE	???
1, 4, 5, 7, 8	$A_1 \times A_2 \times A_2$	no	FREE	???
1, 2, 3, 5, 6, 7	$A_1 \times A_2 \times A_3$	no	FREE	???
1, 2, 3, 6, 7, 8	$A_1 \times A_2 \times A_3$	no	FREE	???
1, 2, 4, 5, 7, 8	$A_1 \times A_2 \times A_3$	no	FREE	???
1, 2, 4, 6, 7, 8	$A_1 \times A_2 \times A_3$	no	FREE	???
1, 2, 3, 5, 6, 7, 8	$A_1 \times A_2 \times A_4$	no	FREE	???
1, 2, 5, 7	$A_1 \times A_1 \times A_1 \times A_1$	no	FREE	???
1, 2, 5, 8	$A_1 \times A_1 \times A_1 \times A_1$	no	FREE	???
1, 2, 6, 8	$A_1 \times A_1 \times A_1 \times A_1$	no	FREE	???
1, 4, 6, 8	$A_1 \times A_1 \times A_1 \times A_1$	no	FREE	???
2, 3, 5, 7	$A_1 \times A_1 \times A_1 \times A_1$	no	FREE	???
2, 3, 5, 8	$A_1 \times A_1 \times A_1 \times A_1$	no	FREE	???
2, 3, 6, 8	$A_1 \times A_1 \times A_1 \times A_1$	no	FREE	???
1, 2, 3, 5, 7	$A_1 \times A_1 \times A_1 \times A_2$	no	FREE	???
1, 2, 3, 5, 8	$A_1 \times A_1 \times A_1 \times A_2$	no	FREE	???
1, 2, 3, 6, 8	$A_1 \times A_1 \times A_1 \times A_2$	no	FREE	???
1, 2, 4, 6, 8	$A_1 \times A_1 \times A_1 \times A_2$	no	FREE	???
1, 2, 5, 6, 8	$A_1 \times A_1 \times A_1 \times A_2$	no	FREE	???
1, 2, 5, 7, 8	$A_1 \times A_1 \times A_1 \times A_2$	no	FREE	???
2, 3, 5, 6, 8	$A_1 \times A_1 \times A_1 \times A_2$	no	FREE	???
2, 3, 5, 7, 8	$A_1 \times A_1 \times A_1 \times A_2$	no	FREE	???
1, 2, 3, 5, 6, 8	$A_1 \times A_1 \times A_2 \times A_2$	no	FREE	???
1, 2, 3, 5, 7, 8	$A_1 \times A_1 \times A_2 \times A_2$	no	FREE	???
