

Character Tables of Multiplicity-Free Endomorphism Rings

$G = (6.Fi_{22}.2)^*$ (no. 1)

$H = O_8^+(2) : S_3 \rightarrow ((2.Fi_{22}.2)^*, 3), (3.Fi_{22}.2, 3)$

rank: 12

degree: 741312

	O_1	O_2	O_3	O_4	O_5	O_6	O_7	O_8	O_9	O_{10}	O_{11}
$1a^+$	1	1	2	2	6	3150	6300	9450	67200	67200	134400
$1001a^+$	1	1	2	2	-6	-450	-900	1350	2400	2400	-4800
$3080a^+$	1	1	2	2	6	342	684	1026	-192	-192	-384
$10725a^-$	1	1	2	2	-6	126	252	-378	672	672	-1344
$13650a^+$	1	1	2	2	6	-18	-36	-54	672	672	1344
$45045a^+$	1	1	2	2	6	-18	-36	-54	-192	-192	-384
$50050a^-$	1	1	2	2	-6	-18	-36	54	-192	-192	384
$13728ab$	1	-1	-2	2	0	0	0	0	-840	840	0
$48048bc$	1	-1	-2	2	0	0	0	0	240	-240	0
$27027ab$	1	1	-1	-1	0	150	-150	0	0	0	0
$96525ab$	1	1	-1	-1	0	-42	42	0	0	0	0
$123552cd$	1	-1	1	-1	0	0	0	0	0	0	0

	O_{12}
$1a^+$	453600
$1001a^+$	0
$3080a^+$	-1296
$10725a^-$	0
$13650a^+$	-2592
$45045a^+$	864
$50050a^-$	0
$13728ab$	0
$48048bc$	0
$27027ab$	0
$96525ab$	0
$123552cd$	0

References

- [Mül08] J. Müller. On the multiplicity-free actions of the sporadic simple groups. *J. Algebra*, 320:910–926, 2008.