Character Tables of Multiplicity-Free Endomorphism Rings

$G = 3.Fi_{22}.2$ (no. 2)

$H = O_8^+(2) : 3 \times 2 \rightarrow (Fi_{22}.2, 6)$

rank: 12

degree: 370656

	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	1575	1575	3150	3150	67200	67200	75600
$1001a^-$	1	-1	2	-2	225	-225	450	-450	2400	-2400	0
$3080a^+$	1	1	2	2	171	171	342	342	-192	-192	-216
$10725a^+$	1	-1	2	-2	-63	63	-126	126	672	-672	0
$13650a^+$	1	1	2	2	-9	-9	-18	-18	672	672	-432
$45045a^+$	1	1	2	2	-9	-9	-18	-18	-192	-192	144
$50050a^+$	1	-1	2	-2	9	-9	18	-18	-192	192	0
$351ab$	1	1	-1	-1	375	375	-375	-375	0	0	3600
$7722ab$	1	-1	-1	1	105	-105	-105	105	0	0	0
$19305ab$	1	1	-1	-1	39	39	-39	-39	0	0	-432
$42120ab$	1	1	-1	-1	-21	-21	21	21	0	0	168
$54054ab$	1	-1	-1	1	-15	15	15	-15	0	0	0

	O_{12}
$1a^+$	151200
$1001a^-$	0
$3080a^+$	-432
$10725a^+$	0
$13650a^+$	-864
$45045a^+$	288
$50050a^+$	0
$351ab$	-3600
$7722ab$	0
$19305ab$	432
$42120ab$	-168
$54054ab$	0

References

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