Character Tables of Multiplicity-Free Endomorphism Rings

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

$H = 2^4 : (A_5 \times 2) \to (M_{22}.2, 10)$

rank: 10

degree: 1386

	O_1	O_2	O_3	O_4	O_5	O_6	O_7	O_8	O_9	O_{10}
$1a^+$	1	1	2	2	60	120	120	120	320	640
$21a^+$	1	1	2	2	-6	54	-12	54	-32	-64
$21a^-$	1	-1	2	-2	0	60	0	-60	0	0
$55a^+$	1	1	2	2	18	-6	36	-6	-16	-32
$154a^+$	1	1	2	2	-6	-6	-12	-6	8	16
$210a^-$	1	-1	2	-2	0	-6	0	6	0	0
$21bc$	1	1	-1	-1	30	0	-30	0	40	-40
$105ad$	1	1	-1	-1	-3-r33	0	3+r33	0	-4+4r33	4-4r33
$105bc$	1	1	-1	-1	-3+r33	0	3-r33	0	-4-4r33	4+4r33
$231bc$	1	-1	-1	1	0	0	0	0	0	0

r33 = $Sqrt(33)$

References

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