

Character Tables of Multiplicity-Free Endomorphism Rings

$$G = M_{12}.2 \text{ (no. 3)}$$

$$H = A_6.2^2 < M_{12}$$

$$\text{rank: } 5$$

$$\text{degree: } 132$$

	O_1	O_2	O_3	O_4	O_5
$1a^+$	1	20	30	36	45
$1a^-$	1	20	-30	-36	45
$11ab$	1	8	0	0	-9
$54a^+$	1	-2	-2r5	2r5	1
$54a^-$	1	-2	2r5	-2r5	1

$$\text{r5} = Sqrt(5)$$

References

[PS97] C. E. Praeger and L. H. Soicher. *Low rank representations and graphs for sporadic groups*, volume 8 of *Australian Mathematical Society Lecture Series*. Cambridge University Press, Cambridge, 1997.