

Character Tables of Multiplicity-Free Endomorphism Rings

$$G = (2.M_{12}.2)^* \text{ (no. 1)}$$

$$H = M_{11} \rightarrow (M_{12}.2, 1)$$

$$\text{rank: } 5$$

$$\text{degree: } 48$$

	O_1	O_2	O_3	O_4	O_5
$1a^+$	1	1	12	12	22
$1a^-$	1	1	-12	-12	22
$11ab$	1	1	0	0	-2
$12a^+$	1	-1	$2+4z3$	$2+4z3^{**}$	0
$12a^-$	1	-1	$2+4z3^{**}$	$2+4z3$	0

$$z3 = (-1 + \sqrt{-3})/2$$

$$z3^{**} = (-1 - \sqrt{-3})/2$$

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.