

Character Tables of Multiplicity-Free Endomorphism Rings

$$G = J_1 \text{ (no. 1)}$$

$$H = L_2(11)$$

$$\text{rank: } 5$$

$$\text{degree: } 266$$

	O_1	O_2	O_3	O_4	O_5
$1a$	1	11	12	110	132
$56a$	1	$-3+b5^*$	$3b5$	$6+7b5$	$6+9b5^*$
$56b$	1	$-3+b5$	$3b5^*$	$6+7b5^*$	$6+9b5$
$76a$	1	4	-2	5	-8
$77a$	1	1	4	-10	4

$$3b5 = (-3 + 3 * Sqrt(5))/2$$

$$3b5^* = (-3 - 3 * Sqrt(5))/2$$

$$b5 = (-1 + Sqrt(5))/2$$

$$b5^* = (-1 - Sqrt(5))/2$$

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.