

Character Tables of Multiplicity-Free Endomorphism Rings

$G = J_4$ (no. 1)

$H = 2^{11} : M_{24}$

rank: 7

degree: 173067389

	O_1	O_2	O_3	O_4	O_5
$1a$	1	15180	28336	3400320	32643072
$889111a$	1	825	1166	14520	19008
$1776888a$	1	517	-990	-1496	32560
$4290927a$	1	-253	0	7084	0
$35411145a$	1	66-17r33	99+19r33	-1166-154r33	-1056+992r33
$35411145b$	1	66+17r33	99-19r33	-1166+154r33	-1056-992r33
$95288172a$	1	-55	-66	440	0

	O_6	O_7
$1a$	54405120	82575360
$889111a$	10560	-46080
$1776888a$	-23936	-6656
$4290927a$	-28336	21504
$35411145a$	-2552-328r33	4608-512r33
$35411145b$	-2552+328r33	4608+512r33
$95288172a$	3520	-3840

r33 = $Sqrt(33)$

References

- [IM99] A. A. Ivanov and U. Meierfrankenfeld. A computer-free construction of J_4 . *J. Algebra*, 219(1):113–172, 1999.