

Character Tables of Multiplicity-Free Endomorphism Rings

$G = J_4$ (no. 2)

$H = 2^{11} : M_{23} < 2^{11} : M_{24}$

rank: 11

degree: 4153617336

	O_1	O_2	O_3	O_4	O_5
$1a$	1	23	121440	242880	680064
$889111a$	1	23	6600	13200	27984
$1776888a$	1	23	4136	8272	-23760
$4290927a$	1	23	-2024	-4048	0
$35411145a$	1	23	528-136r33	1056-272r33	2376+456r33
$35411145b$	1	23	528+136r33	1056+272r33	2376-456r33
$95288172a$	1	23	-440	-880	-1584
$460559498a$	1	-1	528	-528	0
$493456605a$	1	-1	352	-352	0
$1184295852a$	1	-1	-352	352	0
$1842237992a$	1	-1	0	0	0

	O_6	O_7	O_8
$1a$	81607680	82575360	130572288
$889111a$	348480	-46080	76032
$1776888a$	-35904	-6656	130240
$4290927a$	170016	21504	0
$35411145a$	-27984-3696r33	4608-512r33	-4224+3968r33
$35411145b$	-27984+3696r33	4608+512r33	-4224-3968r33
$95288172a$	10560	-3840	0
$460559498a$	0	-12288	16896
$493456605a$	0	21504	0
$1184295852a$	0	1792	9856
$1842237992a$	0	-3840	-10560

	O_9	O_{10}	O_{11}
$1a$	652861440	1305722880	1899233280
$889111a$	380160	253440	-1059840
$1776888a$	651200	-574464	-153088
$4290927a$	0	-680064	494592
$35411145a$	-21120+19840r33	-61248-7872r33	105984-11776r33
$35411145b$	-21120-19840r33	-61248+7872r33	105984+11776r33
$95288172a$	0	84480	-88320
$460559498a$	-16896	0	12288
$493456605a$	0	0	-21504
$1184295852a$	-9856	0	-1792
$1842237992a$	10560	0	3840

r33 = $Sqrt(33)$

References

- [Mül03] J. Müller. *On endomorphism rings and character tables*. Habilitationsschrift, RWTH Aachen, 2003.