

Character Tables of Multiplicity-Free Endomorphism Rings

$G = 2.Suz.2$ (no. 4)

$H = 3^5 : (M_{11} \times 2) \rightarrow (Suz.2, 12)$

rank: 14

degree: 465920

	O_1	O_2	O_3	O_4	O_5	O_6	O_7	O_8	O_9
$1a^+$	1	1	330	1782	5832	10692	17820	17820	32076
$364a^+$	1	1	130	582	72	-1188	1020	1020	-1764
$364a^-$	1	1	-110	198	-1080	396	1980	1980	-1188
$5940a^+$	1	1	70	222	-96	396	-120	-120	408
$12012a^-$	1	1	-50	78	0	-324	120	120	432
$14300a^-$	1	1	22	-66	288	108	264	264	72
$15015ab$	1	1	-38	54	72	180	-36	-36	-180
$15795a^+$	1	1	42	54	72	-220	-36	-36	-180
$54054a^+$	1	1	10	-42	-120	36	60	60	12
$100100a^-$	1	1	-2	-18	0	-36	-72	-72	0
$364bc$	1	-1	0	0	0	0	1980	-1980	1782
$16016ab$	1	-1	0	0	0	0	180	-180	-378
$100100b^+$	1	-1	0	0	0	0	-36	36	54
$100100b^-$	1	-1	0	0	0	0	-36	36	54

	O_{10}	O_{11}	O_{12}	O_{13}	O_{14}
$1a^+$	32076	80190	80190	80190	106920
$364a^+$	-1764	-1710	-1710	6390	-1080
$364a^-$	-1188	2970	2970	-2970	-3960
$5940a^+$	408	-150	-150	-150	-720
$12012a^-$	432	-270	-270	-270	0
$14300a^-$	72	-198	-198	-198	-432
$15015ab$	-180	-90	-90	-18	360
$15795a^+$	-180	270	270	-738	680
$54054a^+$	12	-210	-210	30	360
$100100a^-$	0	162	162	162	-288
$364bc$	-1782	0	0	0	0
$16016ab$	378	0	0	0	0
$100100b^+$	-54	-216i2	216i2	0	0
$100100b^-$	-54	216i2	-216i2	0	0

i2 = $Sqrt(-2)$

References

[Mül08] J. Müller. On the multiplicity-free actions of the sporadic simple groups. *J. Algebra*, 320:910–926, 2008.