

Character Tables of Multiplicity-Free Endomorphism Rings

$G = 3.Suz.2$ (no. 3)

$H = 2_-^{1+6}.U_4(2).2 \rightarrow (Suz.2, 10)$

rank: 16

degree: 405405

	O_1	O_2	O_3	O_4	O_5	O_6	O_7	O_8	O_9	O_{10}
$1a^+$	1	2	54	108	1080	1728	3456	5120	9216	10240
$143a^-$	1	2	-27	-54	270	432	864	800	-1152	1600
$780a^+$	1	2	21	42	90	276	552	-160	768	-320
$3432a^+$	1	2	3	6	-180	132	264	200	48	400
$5940a^+$	1	2	15	30	144	12	24	128	-144	256
$14300a^-$	1	2	-9	-18	72	-36	-72	80	144	160
$18954a^-$	1	2	-11	-22	30	48	96	-80	-64	-160
$25025a^+$	1	2	9	18	18	0	0	-64	0	-128
$66560a^+$	1	2	0	0	-36	-18	-36	8	-9	16
$66ab$	1	-1	27	-27	0	648	-648	-640	2304	640
$429ab$	1	-1	-18	18	0	288	-288	-640	-576	640
$1716ab$	1	-1	15	-15	0	156	-156	320	384	-320
$6720ab$	1	-1	-12	12	0	102	-102	140	-192	-140
$18954bc$	1	-1	10	-10	0	36	-36	-80	-16	80
$42900ab$	1	-1	6	-6	0	-24	24	32	-48	-32
$64350cd$	1	-1	-6	6	0	-12	12	-16	48	16

	O_{11}	O_{12}	O_{13}	O_{14}	O_{15}	O_{16}
$1a^+$	17280	18432	34560	55296	110592	138240
$143a^-$	-2160	-2304	-4320	3456	6912	-4320
$780a^+$	120	1536	240	384	768	-4320
$3432a^+$	-60	96	-120	-624	-1248	1080
$5940a^+$	276	-288	552	-240	-480	-288
$14300a^-$	-108	288	-216	-144	-288	144
$18954a^-$	80	-128	160	-64	-128	240
$25025a^+$	-144	0	-288	0	0	576
$66560a^+$	36	-18	72	90	180	-288
$66ab$	-2160	-2304	2160	6912	-6912	0
$429ab$	1440	576	-1440	1152	-1152	0
$1716ab$	600	-384	-600	-384	384	0
$6720ab$	-210	192	210	48	-48	0
$18954bc$	-100	16	100	-304	304	0
$42900ab$	24	48	-24	192	-192	0
$64350cd$	12	-48	-12	-48	48	0

References

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