

Character Tables of Multiplicity-Free Endomorphism Rings

$G = 3.Suz.2$ (no. 4)

$H = 2^{4+6} : 3S_6 \rightarrow (Suz.2, 13)$

rank: 20

degree: 1216215

	O_1	O_2	O_3	O_4	O_5	O_6	O_7	O_8	O_9	O_{10}
$1a^+$	1	2	180	480	960	4608	5760	6144	12288	18432
$364a^+$	1	2	-45	30	60	1008	360	1104	2208	-288
$780a^+$	1	2	81	84	168	648	1008	-192	-384	2592
$1001a^+$	1	2	45	-60	-120	-468	900	96	192	3312
$5940a^+$	1	2	63	90	180	-72	144	216	432	-288
$12012a^-$	1	2	-45	30	60	-288	360	96	192	-288
$14300a^-$	1	2	-9	18	36	72	-288	264	528	288
$15795a^+$	1	2	21	-36	-72	348	228	48	96	-288
$25025a^+$	1	2	45	36	72	-36	36	-96	-192	-144
$66560a^+$	1	2	18	0	0	18	-126	-24	-48	72
$75075a^+$	1	2	-27	12	24	108	36	-48	-96	0
$88452a^+$	1	2	-15	0	0	-48	-60	-24	-48	72
$100100a^+$	1	2	9	-24	-48	-72	36	24	48	-72
$1365ab$	1	-1	0	60	-60	0	0	432	-432	0
$4290ab$	1	-1	0	60	-60	0	0	288	-288	0
$27027ab$	1	-1	0	-36	36	0	0	240	-240	0
$42900ab$	1	-1	0	24	-24	0	0	0	0	0
$85800ab$	1	-1	0	-24	24	0	0	-48	48	0
$104247ab$	1	-1	0	24	-24	0	0	0	0	0
$139776ab$	1	-1	0	-6	6	0	0	-30	30	0

	O_{11}	O_{12}	O_{13}	O_{14}	O_{15}	O_{16}	O_{17}	O_{18}
$1a^+$	20480	40960	46080	69120	69120	92160	92160	184320
$364a^+$	-1120	-2240	2880	-6480	-1080	5760	-5040	-10080
$780a^+$	1472	2944	-1440	216	2592	-2880	-2880	-5760
$1001a^+$	-1120	-2240	720	-540	-2160	1440	1440	2880
$5940a^+$	-112	-224	-96	-1080	1728	-192	744	1488
$12012a^-$	320	640	0	0	-1080	0	0	0
$14300a^-$	-16	-32	-288	1080	-432	-576	-72	-144
$15795a^+$	112	224	240	516	-288	480	240	480
$25025a^+$	-160	-320	144	756	-432	288	-288	-576
$66560a^+$	128	256	9	-540	-432	18	144	288
$75075a^+$	-112	-224	-144	-108	0	-288	144	288
$88452a^+$	40	80	240	120	360	480	-120	-240
$100100a^+$	-40	-80	-144	0	216	-288	-72	-144
$1365ab$	-1120	1120	2880	0	0	-2880	720	-720
$4290ab$	320	-320	0	0	0	0	1440	-1440
$27027ab$	32	-32	-192	0	0	192	-240	240
$42900ab$	320	-320	144	0	0	-144	0	0
$85800ab$	-16	16	0	0	0	0	432	-432
$104247ab$	-128	128	-192	0	0	192	0	0
$139776ab$	2	-2	108	0	0	-108	-270	270

	O_{19}	O_{20}
$1a^+$	184320	368640
$364a^+$	4320	8640
$780a^+$	576	1152
$1001a^+$	-1440	-2880
$5940a^+$	-1008	-2016
$12012a^-$	0	0
$14300a^-$	-144	-288
$15795a^+$	-784	-1568
$25025a^+$	288	576
$66560a^+$	72	144
$75075a^+$	144	288
$88452a^+$	-280	-560
$100100a^+$	216	432
$1365ab$	1440	-1440
$4290ab$	-2880	2880
$27027ab$	288	-288
$42900ab$	576	-576
$85800ab$	144	-144
$104247ab$	128	-128
$139776ab$	-342	342

References

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