

Character Tables of Multiplicity-Free Endomorphism Rings

$G = 3.Fi_{22}.2$ (no. 6)

$H = 2^7 : S_6(2) \rightarrow (Fi_{22}.2, 14)$

rank: 17

degree: 2084940

	O_1	O_2	O_3	O_4	O_5	O_6	O_7	O_8	O_9	O_{10}
$1a^+$	1	2	135	270	1260	2304	2520	4608	8640	17280
$429a^+$	1	2	-15	-30	210	624	420	1248	-960	-1920
$1430a^+$	1	2	-27	-54	126	-288	252	-576	216	432
$3080a^+$	1	2	57	114	246	120	492	240	840	1680
$13650a^+$	1	2	3	6	-60	192	-120	384	192	384
$30030a^+$	1	2	21	42	30	-96	60	-192	-168	-336
$45045a^+$	1	2	27	54	36	0	72	0	0	0
$75075a^+$	1	2	-15	-30	66	48	132	96	-96	-192
$205920a^+$	1	2	-9	-18	0	-36	0	-72	72	144
$320320a^+$	1	2	3	6	-24	12	-48	24	-24	-48
$351ab$	1	-1	75	-75	420	384	-420	-384	1920	-1920
$19305ab$	1	-1	39	-39	108	0	-108	0	192	-192
$27027ab$	1	-1	-15	15	90	144	-90	-144	-240	240
$42120ab$	1	-1	9	-9	-42	120	42	-120	72	-72
$96525ab$	1	-1	-15	15	42	-48	-42	48	48	-48
$123552ab$	1	-1	15	-15	0	-36	0	36	-120	120
$386100ab$	1	-1	-3	3	-18	0	18	0	24	-24

	O_{11}	O_{12}	O_{13}	O_{14}	O_{15}	O_{16}	O_{17}
$1a^+$	30240	45360	90720	241920	430080	483840	725760
$429a^+$	5040	1260	2520	-1680	26880	-3360	-30240
$1430a^+$	3024	-2268	-4536	6048	-5376	12096	-9072
$3080a^+$	288	1368	2736	120	-4224	240	-4320
$13650a^+$	936	-576	-1152	-960	-768	-1920	3456
$30030a^+$	720	180	360	-672	-768	-1344	2160
$45045a^+$	-432	-432	-864	0	1536	0	0
$75075a^+$	-144	-36	-72	48	-768	96	864
$205920a^+$	0	0	0	-252	672	-504	0
$320320a^+$	-36	72	144	228	-336	456	-432
$351ab$	0	5040	-5040	13440	0	-13440	0
$19305ab$	0	-144	144	-1536	0	1536	0
$27027ab$	0	180	-180	-240	0	240	0
$42120ab$	0	-504	504	504	0	-504	0
$96525ab$	0	-252	252	336	0	-336	0
$123552ab$	0	0	0	420	0	-420	0
$386100ab$	0	108	-108	-192	0	192	0

References

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