

Character Tables of Multiplicity-Free Endomorphism Rings

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

$H = 2^{4+6} : 3.A_6 \rightarrow (Suz, 6)$

rank: 27

degree: 1216215

	O_1	O_2	O_3	O_4	O_5	O_6	O_7	O_8	O_9	O_{10}
$1a$	1	1	1	180	480	480	480	4608	5760	6144
$364a$	1	1	1	-45	30	30	30	1008	360	1104
$780a$	1	1	1	81	84	84	84	648	1008	-192
$1001a$	1	1	1	45	-60	-60	-60	-468	900	96
$5940a$	1	1	1	63	90	90	90	-72	144	216
$12012a$	1	1	1	-45	30	30	30	-288	360	96
$14300a$	1	1	1	-9	18	18	18	72	-288	264
$15795a$	1	1	1	21	-36	-36	-36	348	228	48
$25025a$	1	1	1	45	36	36	36	-36	36	-96
$66560a$	1	1	1	18	0	0	0	18	-126	-24
$75075a$	1	1	1	-27	12	12	12	108	36	-48
$88452a$	1	1	1	-15	0	0	0	-48	-60	-24
$100100a$	1	1	1	9	-24	-24	-24	-72	36	24
$1365a$	1	$z3$	$z3^{**}$	0	60	$60z3$	$60z3^{**}$	0	0	432
$1365b$	1	$z3^{**}$	$z3$	0	60	$60z3^{**}$	$60z3$	0	0	432
$4290a$	1	$z3$	$z3^{**}$	0	60	$60z3$	$60z3^{**}$	0	0	288
$4290b$	1	$z3^{**}$	$z3$	0	60	$60z3^{**}$	$60z3$	0	0	288
$27027a$	1	$z3$	$z3^{**}$	0	-36	$-36z3$	$-36z3^{**}$	0	0	240
$27027b$	1	$z3^{**}$	$z3$	0	-36	$-36z3^{**}$	$-36z3$	0	0	240
$42900a$	1	$z3$	$z3^{**}$	0	24	$24z3$	$24z3^{**}$	0	0	0
$42900b$	1	$z3^{**}$	$z3$	0	24	$24z3^{**}$	$24z3$	0	0	0
$85800a$	1	$z3$	$z3^{**}$	0	-24	$-24z3$	$-24z3^{**}$	0	0	-48
$85800b$	1	$z3^{**}$	$z3$	0	-24	$-24z3^{**}$	$-24z3$	0	0	-48
$104247a$	1	$z3$	$z3^{**}$	0	24	$24z3$	$24z3^{**}$	0	0	0
$104247b$	1	$z3^{**}$	$z3$	0	24	$24z3^{**}$	$24z3$	0	0	0
$139776a$	1	$z3$	$z3^{**}$	0	-6	$-6z3$	$-6z3^{**}$	0	0	-30
$139776b$	1	$z3^{**}$	$z3$	0	-6	$-6z3^{**}$	$-6z3$	0	0	-30

	O_{11}	O_{12}	O_{13}	O_{14}	O_{15}	O_{16}	O_{17}
$1a$	6144	6144	18432	20480	20480	20480	46080
$364a$	1104	1104	-288	-1120	-1120	-1120	2880
$780a$	-192	-192	2592	1472	1472	1472	-1440
$1001a$	96	96	3312	-1120	-1120	-1120	720
$5940a$	216	216	-288	-112	-112	-112	-96
$12012a$	96	96	-288	320	320	320	0
$14300a$	264	264	288	-16	-16	-16	-288
$15795a$	48	48	-288	112	112	112	240
$25025a$	-96	-96	-144	-160	-160	-160	144
$66560a$	-24	-24	72	128	128	128	9
$75075a$	-48	-48	0	-112	-112	-112	-144
$88452a$	-24	-24	72	40	40	40	240
$100100a$	24	24	-72	-40	-40	-40	-144
$1365a$	432z3	432z3**	0	-1120	-1120z3	-1120z3**	2880
$1365b$	432z3**	432z3	0	-1120	-1120z3**	-1120z3	2880
$4290a$	288z3	288z3**	0	320	320z3	320z3**	0
$4290b$	288z3**	288z3	0	320	320z3**	320z3	0
$27027a$	240z3	240z3**	0	32	32z3	32z3**	-192
$27027b$	240z3**	240z3	0	32	32z3**	32z3	-192
$42900a$	0	0	0	320	320z3	320z3**	144
$42900b$	0	0	0	320	320z3**	320z3	144
$85800a$	-48z3	-48z3**	0	-16	-16z3	-16z3**	0
$85800b$	-48z3**	-48z3	0	-16	-16z3**	-16z3	0
$104247a$	0	0	0	-128	-128z3	-128z3**	-192
$104247b$	0	0	0	-128	-128z3**	-128z3	-192
$139776a$	-30z3	-30z3**	0	2	2z3	2z3**	108
$139776b$	-30z3**	-30z3	0	2	2z3**	2z3	108

	O_{18}	O_{19}	O_{20}	O_{21}	O_{22}	O_{23}	O_{24}
$1a$	46080	46080	69120	69120	92160	92160	92160
$364a$	2880	2880	-6480	-1080	-5040	-5040	-5040
$780a$	-1440	-1440	216	2592	-2880	-2880	-2880
$1001a$	720	720	-540	-2160	1440	1440	1440
$5940a$	-96	-96	-1080	1728	744	744	744
$12012a$	0	0	0	-1080	0	0	0
$14300a$	-288	-288	1080	-432	-72	-72	-72
$15795a$	240	240	516	-288	240	240	240
$25025a$	144	144	756	-432	-288	-288	-288
$66560a$	9	9	-540	-432	144	144	144
$75075a$	-144	-144	-108	0	144	144	144
$88452a$	240	240	120	360	-120	-120	-120
$100100a$	-144	-144	0	216	-72	-72	-72
$1365a$	2880z3	2880z3**	0	0	720	720z3	720z3**
$1365b$	2880z3**	2880z3	0	0	720	720z3**	720z3
$4290a$	0	0	0	0	1440	1440z3	1440z3**
$4290b$	0	0	0	0	1440	1440z3**	1440z3
$27027a$	-192z3	-192z3**	0	0	-240	-240z3	-240z3**
$27027b$	-192z3**	-192z3	0	0	-240	-240z3**	-240z3
$42900a$	144z3	144z3**	0	0	0	0	0
$42900b$	144z3**	144z3	0	0	0	0	0
$85800a$	0	0	0	0	432	432z3	432z3**
$85800b$	0	0	0	0	432	432z3**	432z3
$104247a$	-192z3	-192z3**	0	0	0	0	0
$104247b$	-192z3**	-192z3	0	0	0	0	0
$139776a$	108z3	108z3**	0	0	-270	-270z3	-270z3**
$139776b$	108z3**	108z3	0	0	-270	-270z3**	-270z3

	O_{25}	O_{26}	O_{27}
$1a$	184320	184320	184320
$364a$	4320	4320	4320
$780a$	576	576	576
$1001a$	-1440	-1440	-1440
$5940a$	-1008	-1008	-1008
$12012a$	0	0	0
$14300a$	-144	-144	-144
$15795a$	-784	-784	-784
$25025a$	288	288	288
$66560a$	72	72	72
$75075a$	144	144	144
$88452a$	-280	-280	-280
$100100a$	216	216	216
$1365a$	1440	1440z3	1440z3**
$1365b$	1440	1440z3**	1440z3
$4290a$	-2880	-2880z3	-2880z3**
$4290b$	-2880	-2880z3**	-2880z3
$27027a$	288	288z3	288z3**
$27027b$	288	288z3**	288z3
$42900a$	576	576z3	576z3**
$42900b$	576	576z3**	576z3
$85800a$	144	144z3	144z3**
$85800b$	144	144z3**	144z3
$104247a$	128	128z3	128z3**
$104247b$	128	128z3**	128z3
$139776a$	-342	-342z3	-342z3**
$139776b$	-342	-342z3**	-342z3

$$z3 = (-1 + \sqrt{-3})/2$$

$$z3^{**} = (-1 - \sqrt{-3})/2$$

References

[Lin] S. A. Linton. private communication.