

Character Tables of Multiplicity-Free Endomorphism Rings

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

$H = O_8^+(2) : 3 \rightarrow (2.Fi_{22}, 5), (3.Fi_{22}, 2)$

rank: 17

degree: 741312

	O_1	O_2	O_3	O_4	O_5	O_6	O_7	O_8	O_9	O_{10}
$1a$	1	1	1	1	1	1	3	3	3150	3150
$1001a$	1	1	1	1	1	1	-3	-3	-450	-450
$3080a$	1	1	1	1	1	1	3	3	342	342
$10725a$	1	1	1	1	1	1	-3	-3	126	126
$13650a$	1	1	1	1	1	1	3	3	-18	-18
$45045a$	1	1	1	1	1	1	3	3	-18	-18
$50050a$	1	1	1	1	1	1	-3	-3	-18	-18
$13728a$	1	-1	1	-1	1	-1	-3	3	0	0
$13728b$	1	-1	1	-1	1	-1	3	-3	0	0
$48048b$	1	-1	1	-1	1	-1	-3	3	0	0
$48048c$	1	-1	1	-1	1	-1	3	-3	0	0
$27027a$	1	z3	z3**	1	z3	z3**	0	0	150	150z3
$27027b$	1	z3**	z3	1	z3**	z3	0	0	150	150z3**
$96525a$	1	z3	z3**	1	z3	z3**	0	0	-42	-42z3
$96525b$	1	z3**	z3	1	z3**	z3	0	0	-42	-42z3**
$123552c$	1	-z3	z3**	-1	z3	-z3**	0	0	0	0
$123552d$	1	-z3**	z3	-1	z3**	-z3	0	0	0	0

	O_{11}	O_{12}	O_{13}	O_{14}	O_{15}	O_{16}	O_{17}
$1a$	3150	9450	67200	67200	67200	67200	453600
$1001a$	-450	1350	2400	2400	-2400	-2400	0
$3080a$	342	1026	-192	-192	-192	-192	-1296
$10725a$	126	-378	672	672	-672	-672	0
$13650a$	-18	-54	672	672	672	672	-2592
$45045a$	-18	-54	-192	-192	-192	-192	864
$50050a$	-18	54	-192	-192	192	192	0
$13728a$	0	0	-840	840	-840	840	0
$13728b$	0	0	-840	840	840	-840	0
$48048b$	0	0	240	-240	240	-240	0
$48048c$	0	0	240	-240	-240	240	0
$27027a$	150z3**	0	0	0	0	0	0
$27027b$	150z3	0	0	0	0	0	0
$96525a$	-42z3**	0	0	0	0	0	0
$96525b$	-42z3	0	0	0	0	0	0
$123552c$	0	0	0	0	0	0	0
$123552d$	0	0	0	0	0	0	0

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

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

References

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