

Character Tables of Multiplicity-Free Endomorphism Rings

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

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

rank: 11

degree: 370656

	O_1	O_2	O_3	O_4	O_5	O_6	O_7	O_8	O_9
$1a$	1	1	1	3	1575	1575	1575	4725	67200
$1001a$	1	1	1	-3	-225	-225	-225	675	-2400
$3080a$	1	1	1	3	171	171	171	513	-192
$10725a$	1	1	1	-3	63	63	63	-189	-672
$13650a$	1	1	1	3	-9	-9	-9	-27	672
$45045a$	1	1	1	3	-9	-9	-9	-27	-192
$50050a$	1	1	1	-3	-9	-9	-9	27	192
$27027a$	1	$z3$	$z3^{**}$	0	75	$75z3$	$75z3^{**}$	0	0
$27027b$	1	$z3^{**}$	$z3$	0	75	$75z3^{**}$	$75z3$	0	0
$96525a$	1	$z3$	$z3^{**}$	0	-21	$-21z3$	$-21z3^{**}$	0	0
$96525b$	1	$z3^{**}$	$z3$	0	-21	$-21z3^{**}$	$-21z3$	0	0

	O_{10}	O_{11}
$1a$	67200	226800
$1001a$	2400	0
$3080a$	-192	-648
$10725a$	672	0
$13650a$	672	-1296
$45045a$	-192	432
$50050a$	-192	0
$27027a$	0	0
$27027b$	0	0
$96525a$	0	0
$96525b$	0	0

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

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

References

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