

# Character Tables of Multiplicity-Free Endomorphism Rings

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

$H = O_8^+(2) : S_3 \rightarrow (Fi_{22}.2, 7)$

rank: 9

degree: 370656

|            | $O_1$ | $O_2$ | $O_3$ | $O_4$ | $O_5$ | $O_6$ | $O_7$ | $O_8$ | $O_9$  |
|------------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| $1a^+$     | 1     | 2     | 3     | 1575  | 3150  | 4725  | 67200 | 67200 | 226800 |
| $1001a^+$  | 1     | 2     | -3    | -225  | -450  | 675   | -2400 | 2400  | 0      |
| $3080a^+$  | 1     | 2     | 3     | 171   | 342   | 513   | -192  | -192  | -648   |
| $10725a^-$ | 1     | 2     | -3    | 63    | 126   | -189  | -672  | 672   | 0      |
| $13650a^+$ | 1     | 2     | 3     | -9    | -18   | -27   | 672   | 672   | -1296  |
| $45045a^+$ | 1     | 2     | 3     | -9    | -18   | -27   | -192  | -192  | 432    |
| $50050a^-$ | 1     | 2     | -3    | -9    | -18   | 27    | 192   | -192  | 0      |
| $27027ab$  | 1     | -1    | 0     | 75    | -75   | 0     | 0     | 0     | 0      |
| $96525ab$  | 1     | -1    | 0     | -21   | 21    | 0     | 0     | 0     | 0      |

## References

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