

# Character Tables of Multiplicity-Free Endomorphism Rings

$G = M_{24}$  (no. 9)

$H = L_3(4).3 < L_3(4).3.2_2$

rank: 7

degree: 4048

|         | $O_1$ | $O_2$ | $O_3$ | $O_4$ | $O_5$ | $O_6$ | $O_7$ |
|---------|-------|-------|-------|-------|-------|-------|-------|
| $1a$    | 1     | 1     | 63    | 63    | 420   | 1260  | 2240  |
| $23a$   | 1     | 1     | 39    | 39    | -60   | 300   | -320  |
| $252a$  | 1     | 1     | 17    | 17    | 6     | -74   | 32    |
| $253a$  | 1     | -1    | -21   | 21    | 0     | 0     | 0     |
| $483a$  | 1     | 1     | -3    | -3    | 46    | 6     | -48   |
| $1265a$ | 1     | 1     | -3    | -3    | -18   | 6     | 16    |
| $1771a$ | 1     | -1    | 3     | -3    | 0     | 0     | 0     |

## References

- [Höh01] I. Höhler. Vielfachheitsfreie Permutationsdarstellungen und die Invarianten zugehöriger Graphen. Examensarbeit, RWTH Aachen, 2001.