

Character Tables of Multiplicity-Free Endomorphism Rings

$$G = He \text{ (no. 1)}$$

$$H = S_4(4).2$$

$$\text{rank: } 5$$

$$\text{degree: } 2058$$

	O_1	O_2	O_3	O_4	O_5
$1a$	1	136	136	425	1360
$51a$	1	-18-14i7	-18+14i7	75	-40
$51b$	1	-18+14i7	-18-14i7	75	-40
$680a$	1	10	10	5	-26
$1275a$	1	-4	-4	-9	16

$$i7 = Sqrt(-7)$$

References

[PS97] C. E. Praeger and L. H. Soicher. *Low rank representations and graphs for sporadic groups*, volume 8 of *Australian Mathematical Society Lecture Series*. Cambridge University Press, Cambridge, 1997.