The group G is isomorphic to the group labelled by [336, 208] in the Small Groups library. Ordinary character table of  $G \cong PSL(3,2)$ : C2:

|          | 1a | 3a | 6a | 2a | 7a | 2b | 8a               | 8b               | 4a |
|----------|----|----|----|----|----|----|------------------|------------------|----|
| $\chi_1$ | 1  | 1  | 1  | 1  | 1  | 1  | 1                | 1                | 1  |
| $\chi_2$ | 1  | 1  | -1 | -1 | 1  | 1  | -1               | -1               | 1  |
| $\chi_3$ | 6  | 0  | 0  | 0  | -1 | -2 | 0                | 0                | 2  |
| $\chi_4$ | 6  | 0  | 0  | 0  | -1 | 2  | $-E(8) + E(8)^3$ | $E(8) - E(8)^3$  | 0  |
| $\chi_5$ | 6  | 0  | 0  | 0  | -1 | 2  | $E(8) - E(8)^3$  | $-E(8) + E(8)^3$ | 0  |
| $\chi_6$ | 7  | 1  | -1 | -1 | 0  | -1 | 1                | 1                | -1 |
| $\chi_7$ | 7  | 1  | 1  | 1  | 0  | -1 | -1               | -1               | -1 |
| $\chi_8$ | 8  | -1 | -1 | 2  | 1  | 0  | 0                | 0                | 0  |
| $\chi_9$ | 8  | -1 | 1  | -2 | 1  | 0  | 0                | 0                | 0  |

Trivial source character table of  $G \cong PSL(3,2)$ : C2 at p = 7:

| Normalisers $N_i$  |            |       |    | $N_1$ |    |                      |                      |    |       |            | $N_2$ |            |            |           |  |  |
|--|------------|-------|----|-------|----|----------------------|----------------------|----|-------|------------|-------|------------|------------|-----------|--|--|
| p-subgroups of $G$ up to conjugacy in $G$  |            | $P_1$ |    |       |    |                      |                      |    | $P_2$ |            |       |            |            |           |  |  |
| Representatives $n_j \in N_i$  | 1 <i>a</i> | 3a    | 6a | 2a    | 2b | 8a                   | 8b                   | 4a | 1a    | 3b         | 2a    | 3a         | 6b         | 6a        |  |  |
| $1 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 1 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9$ | 7          | 1     | 1  | 1     | 3  | $1 + E(8) - E(8)^3$  | $1 - E(8) + E(8)^3$  | 1  | 0     | 0          | 0     | 0          | 0          | 0         |  |  |
| $0 \cdot \chi_1 + 1 \cdot \chi_2 + 0 \cdot \chi_3 + 1 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9$ | 7          | 1     | -1 | -1    | 3  | $-1 - E(8) + E(8)^3$ | $-1 + E(8) - E(8)^3$ | 1  | 0     | 0          | 0     | 0          | 0          | 0         |  |  |
| $0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 1 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9$ | 7          | 1     | 1  | 1     | -1 | -1                   | -1                   | -1 | 0     | 0          | 0     | 0          | 0          | 0         |  |  |
| $0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 1 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9$ | 7          | 1     | -1 | -1    | -1 | 1                    | 1                    | -1 | 0     | 0          | 0     | 0          | 0          | 0         |  |  |
| $0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 1 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 1 \cdot \chi_9$ | 14         | -1    | 1  | -2    | 2  | $E(8) - E(8)^3$      | $-E(8) + E(8)^3$     | 0  | 0     | 0          | 0     | 0          | 0          | 0         |  |  |
| $0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 1 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 1 \cdot \chi_8 + 0 \cdot \chi_9$ | 14         | -1    | -1 | 2     | 2  | $-E(8) + E(8)^3$     | $E(8) - E(8)^3$      | 0  | 0     | 0          | 0     | 0          | 0          | 0         |  |  |
| $0 \cdot \chi_1 + 0 \cdot \chi_2 + 1 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 1 \cdot \chi_8 + 0 \cdot \chi_9$ | 14         | -1    | -1 | 2     | -2 | 0                    | 0                    | 2  | 0     | 0          | 0     | 0          | 0          | 0         |  |  |
| $0 \cdot \chi_1 + 0 \cdot \chi_2 + 1 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 1 \cdot \chi_9$ | 14         | -1    | 1  | -2    | -2 | 0                    | 0                    | 2  | 0     | 0          | 0     | 0          | 0          | 0         |  |  |
| $1 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9$ | 1          | 1     | 1  | 1     | 1  | 1                    | 1                    | 1  | 1     | 1          | 1     | 1          | 1          | 1         |  |  |
| $0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 1 \cdot \chi_8 + 0 \cdot \chi_9$ | 8          | -1    | -1 | 2     | 0  | 0                    | 0                    | 0  | 1     | E(3)       | 1     | $E(3)^{2}$ | E(3)       | $E(3)^2$  |  |  |
| $0 \cdot \chi_1 + 1 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9$ | 1          | 1     | -1 | -1    | 1  | -1                   | -1                   | 1  | 1     | 1          | -1    | 1          | -1         | -1        |  |  |
| $0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 1 \cdot \chi_8 + 0 \cdot \chi_9$ |            | -1    | -1 | 2     | 0  | 0                    | 0                    | 0  | 1     | $E(3)^{2}$ | 1     | E(3)       | $E(3)^{2}$ | E(3)      |  |  |
| $0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 1 \cdot \chi_9$ |            | -1    | 1  | -2    | 0  | 0                    | 0                    | 0  | 1     | E(3)       | -1    | $E(3)^{2}$ | -E(3)      | $-E(3)^2$ |  |  |
| $0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 1 \cdot \chi_9$ |            | -1    | 1  | -2    | 0  | 0                    | 0                    | 0  | 1     | $E(3)^{2}$ | -1    | E(3)       | $-E(3)^2$  | -E(3)     |  |  |

 $P_1 = Group([()]) \cong 1$  $P_2 = Group([(2, 3, 6, 5, 4, 8, 7)]) \cong C7$ 

 $N_1 = Group([(2,4)(3,5)(7,8),(1,2,3)(4,6,7)]) \cong PSL(3,2) : C2$  $N_2 = Group([(2,3,6,5,4,8,7),(3,7)(4,5)(6,8),(3,5,6,7,4,8)]) \cong C7 : C6$