# ${}^2F_4(2)'$ (mod 2)

| | blocks | defect | matrix |
|---|---|---|---|
| $G:$ | 1 | 11 | $20 \times 3$ |
| | 2 | 0 | $2048_1 = \chi_{21}, \varphi_4$ |
| | 3 | 0 | $2048_2 = \chi_{22}, \varphi_5$ |

| **Block 1:** | $\varphi_1$ | $\varphi_2$ | $\varphi_3$ |
|---|---|---|---|
| $1_1 = \chi_1$ | 1 | . | . |
| $26_1 = \chi_2$ | . | 1 | . |
| $26_2 = \chi_3$ | . | 1 | . |
| $27_1 = \chi_4$ | 1 | 1 | . |
| $27_2 = \chi_5$ | 1 | 1 | . |
| $78_1 = \chi_6$ | . | 3 | . |
| $300_1 = \chi_7$ | 2 | 2 | 1 |
| $325_1 = \chi_8$ | 1 | 3 | 1 |
| $351_1 = \chi_9$ | 1 | 4 | 1 |
| $351_2 = \chi_{10}$ | 1 | 4 | 1 |
| $351_3 = \chi_{11}$ | 1 | 4 | 1 |
| $624_1 = \chi_{12}$ | 2 | 5 | 2 |
| $624_2 = \chi_{13}$ | 2 | 5 | 2 |
| $650_1 = \chi_{14}$ | 2 | 6 | 2 |
| $675_1 = \chi_{15}$ | 1 | 7 | 2 |
| $702_1 = \chi_{16}$ | 2 | 8 | 2 |
| $702_2 = \chi_{17}$ | 2 | 8 | 2 |
| $1300_1 = \chi_{18}$ | 4 | 12 | 4 |
| $1300_2 = \chi_{19}$ | 4 | 12 | 4 |
| $1728_1 = \chi_{20}$ | 4 | 19 | 5 |

$\varphi_1 = 1_1$
$\varphi_2 = 26_1$
$\varphi_3 = 246_1$