

$$S_5 \pmod{5}$$

|          | $\varphi_1$ | $\varphi_3$ | $\varphi_5$ | $\varphi_4$ | $\varphi_6$ | $\varphi_2$ |
|----------|-------------|-------------|-------------|-------------|-------------|-------------|
| $5^1$    | 1           | .           | .           | .           | .           | .           |
| $1^14^1$ | 1           | 1           | .           | .           | .           | .           |
| $2^13^1$ | .           | .           | 1           | .           | .           | .           |
| $1^23^1$ | .           | 1           | .           | 1           | .           | .           |
| $1^12^2$ | .           | .           | .           | .           | 1           | .           |
| $1^32^1$ | .           | .           | .           | 1           | .           | 1           |
| $1^5$    | .           | .           | .           | .           | .           | 1           |