

$$F_4(q) \bmod l, d = 4 \quad (l > 3, (q^2 + 1)_l > 5)$$

[illegible]

[illegible]

	$F_4[\zeta_3]$	$F_4[\zeta_3^2]$	ps	ps
$\phi_{1,0}$	.	.	.	.
$\phi_{4,1}$	.	.	.	.
$B_2 : 2.$	.	.	.	.
$\phi_{9,2}$	.	.	.	.
$\phi_{12,4}$	.	.	.	.
$\phi_{4,8}$	.	.	.	.
$\phi_{6,6}''$	.	.	.	.
$B_2 : 1.1$	.	.	.	.
$F_4^2[1]$	.	.	.	.
$F_4[1]$	.	.	.	.
$F_4[-i]$	.	.	.	.
$F_4[i]$	.	.	.	.
$\phi_{9,10}$	.	.	.	.
$\phi_{4,13}$	.	.	.	.
$B_2 : .11$	.	.	.	.
$\phi_{1,24}$	.	.	.	.
$\phi_{2,4}''$	.	.	.	.
$\phi_{4,7}''$	.	.	.	.
$\phi_{2,16}''$	.	.	.	.
$B_2 : 11.$	.	.	.	.
$\phi_{2,4}'$	.	.	.	.
$\phi_{4,7}'$	.	.	.	.
$\phi_{2,16}'$	.	.	.	.
$B_2 : .2$	.	.	.	.
$\phi_{8,3}'$	.	.	.	.
$\phi_{8,3}''$	.	.	.	.
$\phi_{1,12}''$	.	.	.	.
$\phi_{1,12}'$	.	.	.	.
$\phi_{9,6}''$	.	.	.	.
$\phi_{9,6}'$	.	.	.	.
$\phi_{6,6}''$	.	.	.	.
$\phi_{16,5}$	.	.	.	.
$F_4[-1]$	.	.	.	.
$F_4[\zeta_3]$	1	.	.	.
$F_4[\zeta_3^2]$	.	1	.	.
$\phi_{8,9}'$	.	.	1	.
$\phi_{8,9}''$	.	.	.	1

References

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- [HL98] G. Hiss and F. Lübeck. The Brauer trees of the exceptional Chevalley groups of types F_4 and 2E_6 . *Arch. Math. (Basel)*, 70(1):16–21, 1998.