

Talies

- Hilbert Poincaré series
- generators of $P_0(\mathbb{N})$
- Appell - Cord identities
- Jacobi theta modular functions
- λ of elliptic curves
- h_g

genus ≥ 1 only for $p = 11, 17, 19$

We compute $\chi_2(\mathbb{F}_p)$:

$$\chi_{11}(a) = \begin{cases} +1 & a = 3, 4 \\ -1 & a = -3, -4 \\ 0 & \text{otherwise} \end{cases}$$