

$$\begin{array}{l} ? \\ H = \\ \{\tau \in \\ (\tau) > \\ 0\} \\ \tau \in \\ H = \\ q = \\ \exp(2\pi i \tau) \\ Y = \\ 4\pi(\tau) \\ {}_2() \subset_2 \\ () \\ {}_2() \\ H \\ \gamma\tau = \frac{a\tau + b}{c\tau + d}, for \gamma = (\begin{smallmatrix} a & b \\ c & d \end{smallmatrix}) \in_2 (). \end{array}$$

$$\begin{array}{l} fH \rightarrow \\ k \in \\ f \\ \textit{periodic} \\ f(\tau+ \\ 1) = \\ f(\tau) \\ \tau \in \\ H \\ fB \backslash \\ \{0\} \rightarrow \\ B \subset \\ \tilde{f}(\tau) = \\ \tilde{f}(q) \\ \tilde{f} \\ f \\ f \\ \textit{holo-} \\ \textit{mor-} \\ \textit{phic} \\ \textit{at} \\ \textit{in-} \\ \textit{fin-} \\ \textit{ity} \\ f \\ B \\ f \\ \textit{mod-} \\ \textit{u-} \\ \textit{lar} \\ \textit{con-} \\ \textit{di-} \\ \textit{tion} \\ \textit{of} \\ \textit{weight} \\ k \\ f(\gamma\tau) = (c\tau+d)^k f(\tau) \end{array}$$

$$\begin{array}{l} \tau \\ H \\ \gamma \in_2 \\ () \\ \gamma = \\ (11 \\ 01). \\ f \\ \textit{mod-} \\ \textit{u-} \\ \textit{lar} \\ \textit{form} \\ \textit{(of} \\ \textit{weight} \\ k) \\ k \\ k \\ \} \\ (-10 \\ 0- \\ 1). \\ k \\ k \\ 2k \\ 2k \\ 2 \\ k \\ 1 \\ k \\ k \\ k+ \\ l \\ \bigoplus_k k \\ k^* > \end{array}$$