$$\mathbb{C}\overset{2}{\underset{\omega}{\nabla}}\mathbb{C} = \frac{\mathsf{J} \in \mathbb{C}\underset{\omega}{\nabla}\mathbb{C}}{\mathsf{J}\underset{v}{\maltese}\mathsf{J} < +\infty}$$

$$T_{\mathbb{Z}\ell}\, S_{\mathbb{Z}\ell}\,\mathsf{J} = \mathsf{J}$$

$$\frac{{}_z\mathsf{J} = \sum_{n}^{\mathbb{Z}} c_n \exp\left(\pi i \left(\frac{n}{\ell}\right)^2 \tau + 2\pi i \frac{n}{\ell} z\right)}{\varkappa \in \mathbb{Z} \curvearrowright c_n = c_{n+\ell^2\varkappa}}$$

$$\sum_{n}^{\mathbb{Z}} c_n \exp\left(\pi i \left(\frac{n}{\ell}\right)^2 \tau + 2\pi i \frac{n}{\ell} z\right)$$

$$= \sum_{m \in \ell^2} c_m \sum_{\varkappa}^{\mathbb{Z}} \exp\left(\pi i \left(\frac{m + \ell^2\varkappa}{\ell}\right)^2 \tau + 2\pi i \frac{m + \ell^2\varkappa}{\ell} z\right)$$

$$= \sum_{m \in \ell^2} c_m \sum_{\varkappa}^{\mathbb{Z}} \exp\left(\pi i \left(\frac{m}{\ell} + \ell\varkappa\right)^2 \tau + 2\pi i \left(\frac{m}{\ell} + \ell\varkappa\right) z\right)$$

$${}_z\mathsf{J} = \sum_{n}^{\mathbb{Z}} c_n \exp\left(\pi i \left(\frac{n}{\ell}\right)^2 \tau + 2\pi i \frac{n}{\ell} z\right) = [c_n]$$

$$T_{\ell\varkappa}\,S_{\ell k}\,[\,c_n] = [\,c_{_{m\,-\,\ell^2\varkappa}}]$$

$$\begin{aligned}
{}_{z}\underbrace{T_{\ell\varkappa}S_{\ell k}\mathsf{J}} &= \exp\left(\pi i\ell^2\varkappa^2\tau + 2\pi i\ell\varkappa z\right)\,{}_{z\,+\,\ell\varkappa\tau}\underbrace{S_{\ell k}\mathsf{J}} \\
&= \exp\left(\pi i\ell^2\varkappa^2\tau + 2\pi i\ell\varkappa z\right)\,{}_{z\,+\,\ell\varkappa\tau\,+\,\ell k}\mathsf{J} \\
&= \exp\left(\pi i\ell^2\varkappa^2\tau + 2\pi i\ell\varkappa z\right)\sum_{n}^{\mathbb{Z}} c_n \exp\left(\pi i\left(\frac{n}{\ell}\right)^2\tau + 2\pi i\frac{n}{\ell}\left(z + \ell\varkappa\tau + \ell k\right)\right) \\
&= \sum_{n}^{\mathbb{Z}} c_n \exp\left(\pi i\left(\frac{n}{\ell} + \ell\varkappa\right)^2\tau + 2\pi i\left(\frac{n}{\ell} + \ell\varkappa\right)z\right)\underbrace{\exp\left(2\pi i n k\right)}_{=\,1} \\
&= \sum_{n}^{\mathbb{Z}} c_n \exp\left(\pi i\left(\frac{n+\ell^2\varkappa}{\ell}\right)^2\tau + 2\pi i\frac{n+\ell^2\varkappa}{\ell}z\right) \\
&= \sum_{m}^{\mathbb{Z}} c_{_{m\,-\,\ell^2\varkappa}} \exp\left(\pi i\left(\frac{m}{\ell}\right)^2\tau + 2\pi i\frac{m}{\ell}z\right) = [\,c_{_{m\,-\,\ell^2\varkappa}}]
\end{aligned}$$