hol :

$$\mathfrak{t}_s = \frac{\Gamma_s}{(2\pi)^s}\mathfrak{l}_s$$

$$\frac{\mathfrak{l} \in {}^{\mathbb{C}}\!\diagdown_{\varpi}\mathbb{C}}{\text{bounded vert strips}}$$

$$\mathfrak{t}_s = i^k\, q^{k/2\,-\,s}\mathfrak{t}_{k\,-\,s}$$

Maass

$$\mathfrak{t}_s = \frac{\Gamma_{(s\,+\,it)\,/2}\Gamma_{(s\,-\,it)\,/2}}{\pi^s}\mathfrak{l}_s$$

$$\mathfrak{t}_s = q^{\,1/2\,-\,s}\mathfrak{t}_{1\,-\,s}$$