

$$\mathfrak{L}^s = \prod_p \frac{p^s}{p^s + p^{k-s-1} - p \mathfrak{J}_\#}$$

$$\mathfrak{L}_s = \prod_p \frac{p^s}{p^s + p^{11-s} - p \Delta}$$

Eisenstein $\tau E^s = \sqrt{\pi} \frac{\zeta^{2s-1} \Gamma_{s-1/2}}{\zeta^{2s} \Gamma_s} \tau E^{1-s}$

$$\tau \underline{E}^s = \pi^{-s} \Gamma_s \zeta^{2s} \tau E^s$$

$$\tau \underline{E}^s = \tau \underline{E}^{1-s}$$