$$\begin{array}{ccccc} \mathbb{Q} & \subset & Q \xrightarrow{p} Q^G & & \mathbb{R}^{d_1} \times \mathbb{C}^{d_2} \\ \cup & & \cup & & \cup \\ \mathbb{Z} & \subset & Z \xrightarrow{\asymp} Z^G & & \mathbb{Z}^{d_1 + d_2} \end{array}$$

$$\text{abel } G \xrightarrow{\varrho} \mathbb{C}^x$$

$${}^{s}_{8}\mathbb{Q}_{\varrho}^{-1} = \prod_{P \triangleleft Z} \left( 1 - \frac{\varrho\left(\sigma_P\right)}{\ulcorner Z \ulcorner P \urcorner^{s}} \right)$$

$${}^{s}_{8}\mathbb{Q}_{G} = \prod_{\varrho}^{\overset{\sharp}{G}} {}^{s}_{8}\mathbb{Q}_{\varrho}$$

$${}^{s}_{8}Q = \sum_{N \triangleleft Z} \ulcorner N \urcorner^{-s} = \prod_{P \triangleleft Z} \left( 1 - \ulcorner Z \ulcorner P \urcorner^{-s} \right)^{-1}$$

$${}^{s}_{\infty}Q = \left( \frac{\Gamma_{s/2}}{\pi^{s/2}} \right)^{d_1} \left( \frac{\Gamma_{s}}{(2\pi)^{s}} \right)^{d_2}$$