

$$\begin{array}{ccccccc}
 \Lambda(n) \in \mathcal{A} & \xrightarrow{\text{Vaughan's Identity}} & \sum_{\alpha} \Delta_{\alpha}(n) & \overset{\text{Exactification Tower}}{\dashrightarrow} & \mathcal{E}^{\bullet} & \xrightarrow{\text{Sheaf Resolution}} & H^i(\mathcal{E}^{\bullet}) \\
 \downarrow \text{Dirichlet Convolution Ring} & & \downarrow \text{Differential Derivation } D & & \downarrow \text{Derived Stack } \mathbb{E}_{\Lambda} & & \downarrow \text{Cohomology of Arithmetic Density} \\
 \mathcal{A} = (\mathcal{A}, *, D) & & \mathcal{A}_D = \text{Differential Ring} & & \mathbb{E}_{\Lambda} = \text{Stack of Resolutions} & & \mathbb{F}_{\Lambda} = \lim \mathcal{F}_{\alpha} = \text{Perfectoid Limit}
 \end{array}$$