1167-11-177 **Shanna Dobson***, 5151 State University Drive, Los Angeles, CA 90032. *Diamond Holographic Principle and $\mathcal{D}^\diamond$-Emergent Time.* Preliminary report.

We introduced the Efimov K-theory of diamonds in a conjectured localization sequence $K(\mathcal{D}_\diamond) \to K^{\mathrm{Efimov}}(\mathcal{Y}^\diamond_{S,E}) \to K^{\mathrm{Efimov}}(\mathcal{Y}_{(R,R^+),E})$ and modification $F_{cont}(\mathrm{Shv}(\mathbb{S}^n, \mathcal{D}^\diamond)) \simeq \Omega^n F_{cont}(\mathcal{D}^\diamond)$, for $\mathcal{D}^\diamond$ a stable dualizable presentable $(\infty,1)$-category of diamonds, $\mathcal{D}_\diamond$ the complex of v-stacks of locally spatial diamonds, $\mathcal{Y}_{(R,R^+),E} = \mathrm{Spa}(R,R^+) \times_{\mathrm{Spa}F_q} \mathrm{Spa}F_q[[t]]$ the relative Fargues-Fontaine curve, and $\mathcal{Y}^\diamond_{S,E} = S \times (\mathrm{Spa}\mathcal{O}_E)^\diamond$ the diamond.

In this talk, we discuss our diamond holographic principle using the adjoint pairs f^*, $\mathcal{R}f_*$ and $\mathcal{R}f_!$, $\mathcal{R}f^!$ from Scholze's six operations, a sheaf of sets on $*_{\mathrm{pro\acute{e}t}}$, and a mathematical-impurity geometric point $\mathrm{Spa}\ C \to \mathcal{D}$. We then discuss emergent time from the condensed setting and investigate a condensed version of $F_{cont}(\mathrm{Shv}(\mathbb{S}^n, \mathcal{D}^\diamond)) \simeq \Omega^n F_{cont}(\mathcal{D}^\diamond)$. (Received March 06, 2021)