

**Title:** Variational methods for some singular stochastic elliptic PDEs

**Abstract:** Using variational methods, we show existence and non-uniqueness of weak solutions to some singular elliptic stochastic PDEs with multiplicative noise on compact surfaces. This relies on adapting the mountain pass strategy to the Anderson operator. We also show existence of weak solutions to the Choquard-Pekar equation with multiplicative noise, which is a generalization of the stationary Hartree equation. This is a joint work with Ismaël Bailleul and Hugo Eulry.