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A. Mouzard: A random continuum polymer associated to the Anderson Hamiltonian on compact surfaces

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In this talk, I will present the construction of a random continuum polymer in the presence of a spatial white noise on compact surfaces. This relies on the continuous Anderson Hamiltonian, that is the random Schrödinger operator with white noise potential. The description of the spectral properties of this random operator is obtained using the tools of paracontrolled calculs recently developed to solve singular stochastic PDEs.