

Random operator with singular potential

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Abstract

I will present in this talk a general framework to study Elliptic (or parabolic) operator with Schwartz distributional potential. Namely the two main example are the Schrödinger operator $\mathcal{H} = -\Delta + \xi$ with white noise potential on a box $[-\frac{L}{2}, \frac{L}{2}]^d$ for $d \leq 3$.