

Stability of Dirichlet heat kernel estimates for non-local operators under Gradient and Feynman-Kac perturbations

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Abstract

In this talk, after a brief survey of recent results on sharp two-sided estimates of Dirichlet heat kernels for non-local operators, I will discuss stability of Dirichlet heat kernel estimates for a class of (not necessarily symmetric) Markov processes under gradient as well as non-local Feynman-Kac perturbations.

Based on joint work with Panki Kim and Renming Song.