

ONE-DIMENSIONAL SYMMETRIC STABLE FEYNMAN-KAC
SEMIGROUPS

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Abstract: We investigate here one-dimensional Feynman-Kac semigroups based on symmetric α -stable processes. We begin with establishing the properties of Green operators of intervals and halflines on functions from the Kato class. Then we provide a sufficient condition for gaugeability of the halfline $(-\infty, b)$ and evaluate the critical value β .

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