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Fractional Laplacian with singular drift

Tomasz Jakubowski

(Submitted on 18 Jul 2011)

For $\lambda = \frac{1}{2} u - r b \cdot 12$ we consider the equation $\lambda = \frac{1}{2} u - r b \cdot 12$ { $\alpha = \frac{1}{2} u - r b \cdot 12$, where \$b\$ is a divergence free singular vector field not necessarily belonging to the Kato class. We show that for sufficiently small \$r>0\$ the fundamental solution is globally in time comparable with the density of the isotropic stable process

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