



On the supercritical fractional diffusion equation with Hardy-type drift

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Abstract: We study the heat kernel of the supercritical fractional diffusion equation with the drift in the critical Hölder space. We show that such a drift can have point irregularities strong enough to make the heat kernel vanish at a point for all $t > 0$.

The talk is based on joint work with D. Kinzebulatov and Yu. A. Semënov.

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