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## **Heat kernels for subordinators**

We study transition densities of subordinators that is Lévy processes in  $\mathbb{R}$  starting from 0 with non-decreasing paths. We obtain asymptotic behaviour under lower scaling condition at infinity on the second derivative of the Laplace exponent. Furthermore, we present upper and lower bounds for their density. Sharp estimates are provided if additional upper scaling condition on the Laplace exponent is imposed.