

Spectral heat content for Lévy processes

Tomasz Grzywny, Wrocław University of Science and Technology, Poland

We give the asymptotic behavior of the spectral heat content for Lévy processes of bounded variation in \mathbb{R}^d , $d \geq 1$. We also present the spectral heat content for arbitrary open sets of finite Lebesgue measure in \mathbb{R}^d with respect to Lévy processes of unbounded variation under certain conditions on their characteristic exponents. This is based on a joint papers with W. Cygan, H. Park and R. Song.