

Vytautė Pilipauskaitė

Power variation of some infinitely divisible random fields

Joint with Andreas Basse-O'Connor, Mark Podolskij

We study the limiting behavior of power variation for a class of symmetric infinitely divisible random fields with stationary rectangular increments. We show that the mode of convergence and the first-order limit depend on the interplay between the considered power $p > 0$, the Blumenthal-Gettoor index of the infinitely divisible random measure and the behavior of the kernel function at the origin.