Some recent results on multivariate Gaussian random fields

Yimin Xiao

Michigan State Univeristy
E-mail: xiaoy@msu.edu

Abstract: In this talk, we present some recent results on probabilistic and statistical properties of a large class of multivariate Gaussian random fields with stationary increments including operator fractional Brownian motion and vector-valued operator-scaling random fields. The main results characterize properties of their local times, prediction errors, and coherence.