Oberseminar Mathematische Stochastik

Mittwoch, 31. Januar 2018, 17:00 Uhr, SRZ 217

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Variation of the Nazarov-Sodin constant for random plane waves and arithmetic random waves

Abstract:
We prove that the Nazarov-Sodin constant, which up to a natural scaling gives the leading order growth for the expected number of nodal components of a random Gaussian field, genuinely depends on the field. We then infer the same for "arithmetic random waves", i.e. random toral Laplace eigenfunctions.
This is joint work with Par Kurlberg.