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Aula T2, Facultat de Matemàtiques, UB.

Nodal lines of random waves

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ABSTRACT: In the talk, I will describe recent attempts to understand the mysterious and beautiful geometry of nodal lines of random spherical harmonics and of random plane waves. If time permits, I will also discuss asymptotic statistical topology of nodal sets for other natural polynomial-like ensembles of random functions. The talk is based on a joint work with Fedja Nazarov.