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**Parametric dynamics of level spacings in quantum chaos.** (English) Zbl 0983.81023  
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Summary: We identify parametric (radial) Bessel-Ornstein-Uhlenbeck stochastic processes as primitive dynamical models of energy level repulsion in irregular quantum systems. Familiar GOE, GUE, GSE and non-Hermitian Ginibre-type (Wigner surmise) level spacing distributions arise as special cases in that formalism, as densities of asymptotic invariant (equilibrium) probability measures.

**MSC:**

81Q50 Quantum chaos  
60K40 Other physical applications of random processes

Cited in 1 Document

**Keywords:**

Bessel-Ornstein-Uhlenbeck stochastic processes; energy level repulsion; asymptotic invariant equilibrium probability measures

**Full Text:** [DOI](#)

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