Seminar
Bielefeld - Melbourne Random Matrices

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Power Spectrum Analysis and Zeros of Riemann Zeta Function

By the Bohigas-Giannoni-Schmit conjecture (1984), the spectral statistics of quantum systems whose classical counterparts exhibit chaotic behavior are described by random matrix theory. An alternative characterization of eigenvalue fluctuations was suggested where a long sequence of eigenlevels has been interpreted as a discrete-time random process. It has been conjectured that the power spectrum of energy level fluctuations shows $1/\omega$ noise in the chaotic case, whereas, when the classical analog is fully integrable, it shows $1/\omega^2$ behavior.

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Zoom Konferenzschaltung—Please contact Anas Rahmann (anas.rahman@unimelb.edu.au) for details regarding access

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