

Measurement and Simulation of Random Matrix Statistics in Aluminum Mesoscopic Cavities

Mr Oleg Antoniuk and Dr Rudolf Sprik

Van der Waals-Zeeman Institute, University of Amsterdam, Valckenierstraat 65, 1018 XE
Amsterdam, The Netherlands

oantoniu@science.uva.nl

We investigated spectral fluctuations in mesoscopic aluminum cavities for acoustic waves with and without of reflection plane symmetry.

Results of measurements and simulations of cavity responses are compared to the predictions of random Hamiltonian model with time reversal symmetry.

Keywords: acoustic waves, mesoscopic cavity, spectral fluctuation, time-reversal symmetry