

Eugene Wigner Colloquium

joint event of GRK 1558 and SFB 910



Dr. Michael Stich

Aston University, UK

“Local vs. global time-delay feedback schemes for oscillatory systems”

Time-delay feedback schemes have been successfully applied to manipulate and control stationary and time-dependent patterns - including spatio-temporal chaos - in nonlinear media. In this talk, we review findings on time-delay feedback applied to generic oscillatory systems where we focus on the interplay of global feedback with space-dependent feedback. In particular, we consider the stabilisation of uniform oscillations, travelling and standing wave patterns, and amplitude death. We conclude by looking on the impact of noise on the dynamics and discuss possible applications.

E. Schöll

Thursday, 02.07.15 · 16:15h · EW 202

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