



**Seminar of Research Group Schöll
LV-Nr. 3233 L 607 G-RISC Seminar
Noise Effects in Complex Systems**

**Prof. Dr. Eckehard Schöll, PhD
Dr. Anna Zakharova, Dr. Philipp Hövel**

**Summer Semester 2015
EW 731 – Tuesdays 12:15
Beginning: April 14, 2015**

The seminar offers perspectives on our current research in the area of Nonlinear Dynamics and Control. The seminar is particularly suitable for BSc and MSc students looking for a final project. Students, who want to obtain a "Seminarschein", are welcome as well.

The nonlinear dynamics of complex systems and networks is a field of active research with applications in diverse fields such as physics, chemistry, biology, technological or socio-economic systems, for instance coupled lasers, neuronal networks, genetic regulatory networks, electronic circuits, chemical or electrochemical oscillators, power grids, transportation networks, or the internet. The seminar will focus on noise effects in nonlinear dynamical systems like coherence resonance, stochastic bifurcation, stochastic synchronization, and the interplay of noise with delay, nonlinearity, and the topology of complex networks.

References can be found here: <http://www.itp.tu-berlin.de/schoell/nlds/seminare/>

Schedule and Organization

If you are interested in a particular topic, please contact one of the advisors. Final assignment of the topics will be done on April 14, 2015.

Contact

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Dr. Anna Zakharova Dr. Philipp Hövel
Dr. Judith Lehnert Dr. Vitaly Belik Benjamin Lingnau

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