



Seminar



Noise-induced phenomena in complex networks

Prof. Dr. Anna Zakharova, PhD

Dr. Everton S. Medeiros

Summer Term 2021

ER 164 - Tuesday 16:15

The seminar offers perspectives on our current research in the field of Nonlinear Dynamics in Complex Networks. 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. This semester, our focus is the noise-induced phenomena in complex networks. We address the central question of how stochastic fluctuations interact with the features of nonlinear deterministic systems and produce an abundance of exclusive phenomena. The proposed topics cover the state-of-the-art research in the subject by featuring multidisciplinary concepts such as coherence and stochastic resonances in complex networks, noise-induced synchronization, and desynchronization in networks, the interplay between noise and network coupling, among others.

Literature and further information:

https://www.itp.tu-berlin.de/ag_nichtlineare_dynamik_in_komplexen_netzwerken/nlds0/seminare/ss_2021/

Quick Access 219577

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 13.04.2021.

Contact:

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