## Mini-Workshop:

## Developing a mathematical theory for co-evolutionary dynamical networks (MTCED)

Organizer: Erik A. Martens, version: May 29, 2023

## Programme Tue May 30, 2023. Location: MH:333

• Time: 9.00-9.30

Serhiy Yanchuk, Potsdam Institut f. Klimaforschung, DE Title: "Recurrent synchronization in adaptive networks"

• Time: 9.30-10.00

Felix Augustsson, Centre for Mathematical Science, Lund University, SE Theta neurons with adaptive coupling

• Time: 9.30-10.00

CANCELLED: Christian Kuehn, TU Munich, DE; ONLINE: ZOOM-link Adaptive and Polyadic Network Dynamics

— short break —

• Time: 10.30-11.00

Matthias Wolfrum, Weierstrass Institut, DE

Title: Bumps, chimera states, and Turing patterns in systems of coupled active rotators

• Time: 11.00-11.30

Pär Halje, Integrative neurophysiology, Lund University, SE Synchronous high-frequency oscillations induced by psychedelics in the rat

## Programme Wed May 31, 2023, Location: MH:333

• Time: 9.00-9.30

Chuang Xu, University of Hawaii, USA; ONLINE: ZOOM-link

Limits of Adaptive Heterogeneous Networks

• Time: 9.30-10.00

Marius Yamakou, Friedrich-Alexander-Universität Erlangen-Nürnberg, DE

Noise-induced resonance phenomena in neural networks driven by one and two different forms of adaptive rules.

— break —

• Time: 10.50-11.20

Christian Bick, Vrije Universiteit Amsterdam, NL

Title: Phase oscillators on evolving networks in neuroscience: Dimension reductions and scale separation

• Time: 11.20-11.50

Konstantin Klemm, IFISC, Spain

Bifurcations and multistability in adaptive vascular networks