

Dynamical Systems Seminar

Date. July 17th, 14h30 (Friday)

Place. Room FC1.031

Speaker. Christian Bick (Department of Mathematics - Vrije Universiteit Amsterdam)

Title. Phase reduction, higher-order phase interactions, and collective dynamics

Abstract.

The effect of nonpairwise 'higher-order' phase interactions on synchronization dynamics have received a significant amount of attention from the perspective of network science. In this talk we will discuss how these can arise through dimensionality reductions such as phase reduction. This gives insights how they are linked to 'physical' system parameters and shape the emergent collective network dynamics.

There will be a coffee break after the seminar.