

# Creating almost complete and equable heteroclinic networks

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Heteroclinic trajectories can form robust networks of connections between equilibria in ode systems with flow-invariant subspaces. This talk is about joint work with Sofia Castro (University of Porto) and Peter Ashwin (University of Exeter) on the relation between the structure of such networks and directed graphs between nodes. We consider realizations of a large class of transitive digraphs as robust heteroclinic networks and show that although these realizations are typically not complete (i.e. not all unstable manifolds of its nodes are part of the network), they can be almost complete (i.e. complete up to a set of measure zero) and equable (i.e. all sets of connections from a node have the same dimension).

**This submission is for a contributed session**