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Title:

Finding Slow Manifolds that Organize Mixed-Mode Oscillations

Abstract:

We present a general numerical method to compute attracting and repelling slow manifolds and associated canard orbits in systems with a splitting of time scales. As is demonstrated with the self-coupled FitzHugh-Nagumo system, these mathematical objects are of interest as global organizers of mixed-mode oscillations.

This is joint work with Matheiu Desroches (INRIA) and Hinke Osinga (The University of Auckland)