



Dipartimento di Fisica
Università di Cagliari

SEMINARI DEL CORSO DI STUDI IN FISICA

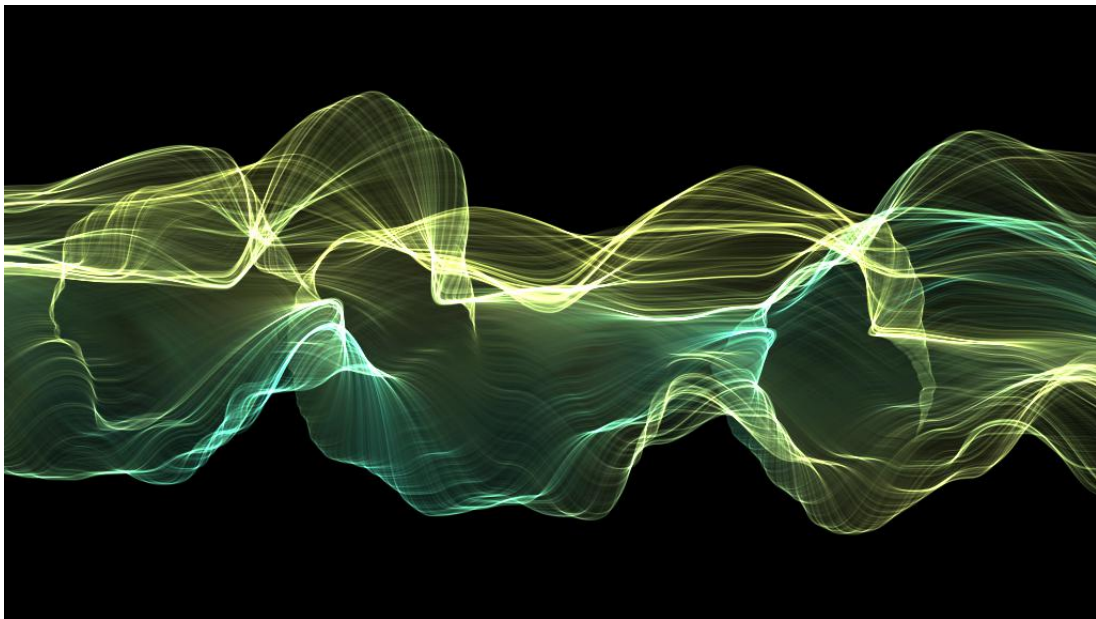
MODEL REDUCTION FOR CHEMICAL REACTION NETWORKS AND POPULATION MODELS

Martedì 2 luglio 2019 · ore 11:00
aula A · Dipartimento di Fisica

Prof. Sebastian Walcher
RWTH Aachen University

Abstract

In biochemistry and population biology, both model derivation and reduction of the dimension of a given (ordinary) differential equation system are frequently performed via heuristics, appealing e.g. to biological intuition. In the talk a contrasting approach will be presented, which relies purely on mathematical arguments (notably singular perturbation theory) and some algorithmic methods.



Il seminario, in lingua inglese, avrà carattere non tecnico, accessibile quindi a tutti gli studenti della Laurea Triennale e Magistrale in Fisica. Tutti gli interessati sono invitati a partecipare.