Computer-assisted proofs, proof assistants and visualization in dynamical systems



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Dimension function of the Lagrange and Markov spectra

Friday, 21 June 2024 09:00 (50 minutes)

I will discuss an approach for computing the Hausdorff dimension of an intersection of the classical Lagrange and Markov spectra with half-infinite ray $d(t) = \dim(M \operatorname{cap}(-\infty,t))$, that allows to plot a graph of the function d(t) with high accuracy. The talk is based on a recent joint work with Carlos Gustavo Moreira and Carlos Matheus Santos (arxiv:2212.11371).

Presenter: VYTNOVA, Polina (University of Surrey)