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



Contribution ID: 7

Type: not specified

Explicit resolvent bounds for transfer operators

Wednesday, 19 June 2024 10:10 (50 minutes)

In this talk I will explain how to obtain explicit upper bounds for the resolvent R(z,L) of any compact operator L on a Hilbert space in terms of its singular values and the distance of z to the spectrum of L. I will then discuss applications of this estimate to obtaining explicit a priori error bounds for spectral approximations of transfer operators. Time permitting, I will also explain how to extend these results to the Banach space setting.

Presenter: BANDTLOW, Oscar (Queen Mary University of London)