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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)