

Date: May 28, 2026**Time:** 15:00 CET**Room:** CRM A1 (Universitat Autònoma de Barcelona)

An extrapolation principle for the Fourier operator

Miguel Saucedo

CRM

In this talk we will discuss some situations in which a Fourier inequality (including the classical Hausdorff-Young and Hardy-Littlewood estimates) can be extended to a broader class of operators. We will also see how this can be used to solve two classical problems: the Bernstein problem of absolute convergence of Fourier series and the characterization of Fourier inequalities with monotonic weights. Joint work with Sergey Tikhonov.