

CMM PDE Seminar

Speaker: Antonella Ritorto (Katholische Universität Eichstätt-Ingolstadt, Germany)

Title: Extremals in Hardy-Littlewood-Sobolev inequalities for stable processes.

Abstract: In this talk, we prove the existence of an extremal function in the Hardy-Littlewood-Sobolev inequality for the energy associated with an stable operator, via a concentration-compactness principle for stable processes. This result can be seen as the first step to study existence of positive solutions of the corresponding nonlocal equations with critical nonlinearities perturbed by lower order terms.

Joint work with Arturo de Pablo (Universidad Carlos III de Madrid) and Fernando Quirós (Universidad Autónoma de Madrid).

Modalidad: presencial en la sala de seminarios del DIM piso 5 o bien online vía zoom:

<https://uchile.zoom.us/j/81800846925?pwd=T0krYUE0YkhnVnFPN2prUGNpUU9kZz09>

Meeting ID: 818 0084 6925, Passcode: 939730

April 13, 2022 at 12 p.m.

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página <https://eventos.cmm.uchile.cl/pdeseminar/>

