
Barcelona Analysis Seminar**2021–2022**

URL. <https://mat.uab.cat/web/seminarianalisi/>**Date.** March 07, 2022**Time.** 15:00 CET**Room.** CRM A1 (Universitat Autònoma de Barcelona)**Online streaming (Microsoft Teams).** [Click here to join.](#)

Decoupling, Cantor sets, and additive combinatorics

Jaume de Dios Pont

University of California - Los Angeles

Decoupling and discrete restriction inequalities have been very fruitful in recent years to solve problems in additive combinatorics and analytic number theory. In this talk I will present some work in decoupling for Cantor sets, including Cantor sets on a parabola, decoupling for product sets, and give applications of these results to additive combinatorics. Time permitting, I will present some open problems.

Contains joint work with Alan Chang (Princeton), Rachel Greenfeld (UCLA), Asgar Jamneshan (Koç University), Zane Li (IU Bloomington), José Ramón Madrid Padilla (UCLA).