Barcelona Analysis Seminar **2024–2025**

Date: December 5, 2024
Time: 15:00 CET
Room: CRM A1 (Universitat Autònoma de Barcelona)

Boundary singular set estimates for solutions to degenerate elliptic equations

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Recent advances in quantitative unique continuation properties for solutions to uniformly elliptic, divergence form equations (with Lipschitz coefficients) has led to a good understanding of the vanishing order and size of singular and zero set of solutions. Such estimates also hold at the boundary, provided that the domain is sufficiently regular. In this talk, I will discuss joint work with M. Engelstein and Y. Sire where we investigate the boundary behavior of solutions to a class of elliptic equations in the higher co-dimension setting, whose coefficients are neither uniformly elliptic, nor uniformly Lipschitz. Despite these challenges, we are still able to show analogous estimates on the singular set of such solutions near the boundary.

More information at: `https://mat.uab.cat/web/seminarianalisi/`