

Date: April 11, 2024

Time: 15:00 CET

Room: UB T2 (Universitat de Barcelona)

Degenerate equations on nodal sets and boundary Harnack principles

Stefano Vita

Università di Torino

We discuss some regularity results for a class of elliptic equations with coefficients that degenerate or explode on the nodal set $Z(u)$ of a given function u . This function is a solution to a uniformly elliptic PDE. The analysis is strongly influenced by the singular set of u . Some uniformity of the estimates is provided under bounds on the frequency function. This is a joint project with Susanna Terracini and Giorgio Tortone.