

DIMENSION OF THE SINGULAR SET OF INTEGRAL STATIONARY VARIFOLDS

Speaker: Luca Spolaor
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Time: Fri, Mar. 22nd, 10:30 - 11:30

Venue: Room 102, SCMS

Abstract: As a consequence of the celebrated Allard's epsilon regularity theorem, it is well known that the singular set of an integral stationary n -varifold is meager. However, all known examples suggests that the Hausdorff dimension of such singular set should be $(n-1)$. In this talk I will present a recent result, joint with J. Hirsch (Leipzig), where we show that if the stationary varifold is a 2-valued Lipschitz n -graph, then indeed its singular set is of dimension $(n-1)$. I will spend ample time introducing the problem and explaining what are the main difficulties.