

Antoine Lemenant: Epsilon-regularity for Griffith minimizers

mercredi 21 juin 2023 11:10 (50 minutes)

In this talk I will present some recent advances concerning the C^1 regularity of minimizers for the vectorial free-discontinuity problem of Griffith. In particular I will try to explain the strategy of proof inspired by the Reifenberg-flat theory, relying on a geometric stopping time argument on the flatness, coupled with a general extension lemma, which was employed in our latest result valid for any dimension $N > 2$. This is a recent joint work with C. Labourie, and generalizes, with a different proof, a previous 2 dimensional result obtained in collaboration with J.F. Babadjian and F. Iurlano.