Ypatia 2022 - June 8-10, 2022

mercredi 8 juin 2022

Abstract: In the classical theory, one usually studies the transport equation looking for solutions in the class of functions. In the seminar I will talk about recent efforts, motivated by the modeling of defects in plastic materials, aimed at extending this theory to the case where the unknown is represented by k-currents in R^d , i.e. generalised k-dimensional surfaces. I will explain the main challenges this problem presents and some recent results based on an ongoing project with G. Del Nin and F. Rindler (University of Warwick). (11:15 - 11:35)