

LINE TENSION MODELS FOR DISLOCATIONS

ROBERTA MARZIANI

In this talk we give a brief introduction on theory of dislocations in the context of continuum elasticity. Afterwards we will introduce a 3D variational model for dislocations. We then show that the asymptotics via Gamma convergence is independent of the specific choice of the energy and of the regularization procedure. This result is based on joint works with Sergio Conti, Adriana Garroni and Riccardo Scala.