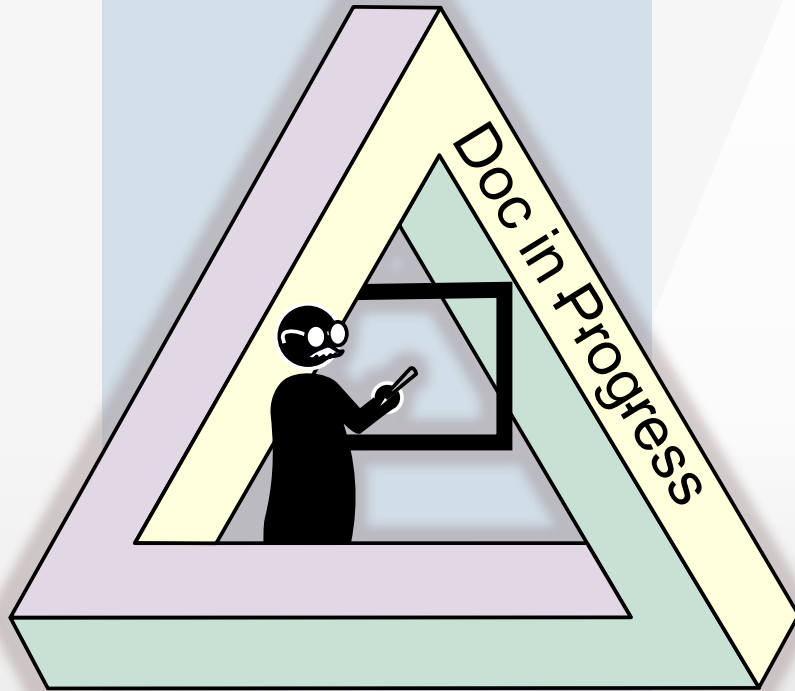




UNIVERSITÀ
DI TRENTO



PhD in Mathematics

“Doc in Progress” is pleased to introduce you to

Samuele Riccò

PhD student
TU Wien

A relaxation result for multiphase elastoplastic materials

Abstract:

We consider elastoplastic materials featuring two different elastic phases, which can interact with each other under suitable rank-one connectedness assumptions, as well as a single-slip, finite crystal plastic behavior, namely allowing for dislocations along one active direction only and with a finite amount of slip. After stating the specifics of the model, we characterize the quasiconvex hull of the class of admissible deformation gradients and provide bounds on the quasiconvex envelope of the energy density.

This is a joint project with Elisa Davoli and Carolin Kreisbeck.



Tuesday, April 21 – 16:00 CET

The seminar will take place in room “Aula Seminari 1”
(Department of Mathematics).

If needed, please contact

docinprogress.unitn@gmail.com

to ask for a Zoom streaming of the event.