

Asymptotic Behavior of systems of PDE arising in physics and biology:  
theoretical and numerical points of view (ABPDE II)

Contribution ID: 9

Type: **not specified**

## Asymptotic analysis for a simplified model of model of dynamical perfect plasticity

*Thursday, 16 June 2016 15:25 (35 minutes)*

In this talk, we will present an initial boundary value problem for a hyperbolic system under constraints, coming from mechanics. To study the solutions of such a system, we will use a viscous approach that relaxes the constraints. We will explain the asymptotic analysis, when the viscous parameter tends to zero, which leads to an interaction between the boundary condition and the constraints for the constrained system. If time permits, we will show some numerical results.

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