

Nonlinear elasto-(visco)-plasticity for finite-strain deformations in geodynamics applications

Interviene:

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In many geodynamic applications the lithosphere has to be considered as a compressible elastic material, which can also flow viscously or break in a brittle fashion depending on the stress level applied and the temperature conditions. This talk will introduce a flexible methodology to address the complex material response, which imposes severe challenges on the discretization and rheological models used. The model is implemented in a parallel (MPI + multi-thread) 3D C++ code based on Deal.II library. Some numerical results will demonstrate the effectiveness of the proposed algorithm.

Seminario

Giovedì 5 maggio 2016

Sala Riunioni, ore 12.00

Via dei Musei 41 - Brescia



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