

Preliminary program of the course:

An 'energetic' view at inelasticity

All lectures: 10:00-13:00, room MS1, Dept. of Structural Mechanics, Univ. of Pavia.

- **Friday, March 9, 2012.** Intro, evolution, basic hysteresis modeling, operators.
- **Friday, March 16, 2012.** Basic solid mechanics, elasticity, plasticity.
- **Friday, March 23, 2012.** Basic calculus of variations, relaxation, Γ -convergence.
- **Friday, March 30, 2012.** Energetic solutions: existence.
- **Wednesday, April 4, 2012.** Energetic solutions: qualitative theory, viscosity.
- **Friday, April 13, 2012.** Energetic solutions: approximation.
- **Friday, April 27, 2012.** Applications (shape memory?)
- **Friday, May 4, 2012.** Applications (linearization in plasticity?)
- **Friday, May 11, 2012.** Applications (dimension reduction?)