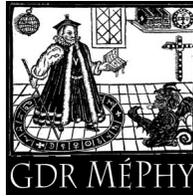


Instabilities in Solid Mechanics

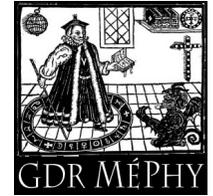
May 16th (Amphi Durand, Bat Esclangon - Jussieu)



- **10h15 : accueil café**
- **10h45 :** Nick Triantafyllidis *Stability problems in mechanics : Multiphysics and Multiscale aspects*
- **11h15-12h30 : Buckling Instabilities**
 - David Robinson *The Effects of Nonlinear Bending on the Wrinkling of Thin Elastic Sheets*
 - Tomohiko Sano *Twist-induced snap-buckling in a bent elastic ribbon*
 - Emmanuel Siefert *Instabilities in pneumatic actuated plates*
 - Kostas Danas *Instabilities in magneto-rheological elastomers*
 - Paul Grandgeorge *Surface-tension induced buckling of thin fibrous membranes for the design of stretchable materials*
- **12h30-14h00 : Lunch break (PMMH) + coffee (back at Esclangon)**
- **14h00-15h00 : Shells**
 - Matteo Pezulla *Curvature-Induced Instabilities of Shells*
 - Corrado Maurini *Piezoelectric shape control of a neutrally stable shell*
 - Anna Lee *Defect-controlled buckling of depressurized elastic shells*
 - Dong Yan *Buckling of Spherical Shells Containing a Thickness Defect*
- **15h00-15h30 : Buckling and delamination**
 - Etienne Barthel *Buckling instabilities of thin films: interface properties and blister morphologies*
 - Franck Vernerey *Rate control of blister instabilities in soft matter*
- **15h30-16h : coffee break**
- **16h- 17h: Material instabilities**
 - Christelle Combescure *Local vs Global instabilities in metamaterials, the importance of modelling joints*
 - Laurent Guin *Stability of vicinal surfaces: beyond the quasi-static approximation*
 - Anne Tanguy *Instability and plasticity in sodo-silicates glass*
 - Laurent Ponson *Localisation and fracture under compression*

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