



Workshop on  
**Analysis of Rate-Independent Processes**

30 August — 1 September 2004

Organizers: *Gilles Francfort (Paris), Alexander Mielke (Stuttgart)*

Location: L.P.M.T.M., Université Paris-Nord  
93430 Villetaneuse

**Topics:**

This workshop focusses on the mathematical underpinnings of quasistatic evolution in continuum mechanical models describing phenomena like dry friction, shape-memory effects, damage, delamination, fracture and plasticity.

The guiding theme will be that of time-parameterized minimization problems with an emphasis on analytical questions associated with the passage from the time-discrete case to the time-continuous one. The goal is to develop mathematical tools that will permit us to establish existence of such processes for a variety of models. Moreover, numerical approximations of the solutions will be discussed.

**Tentative List of Participants:**

S. Andrieux (Clamart)	C. Carstensen (Berlin)	A. Chambolle (Paris)
S. Conti (Leipzig)	G. Dal Maso (Trieste)	A. De Simone (Trieste)
M. Efendiev (Stuttgart)	G. Francfort (Paris)	A. Giacomini (Trieste)
K. Hackl (Bochum)	M. Kočvara (Prague)	M. Kružík (Prague)
C. Larsen (Worcester)	E. Lorentz (Clamart)	A. Mainik (Stuttgart)
J.-J. Marigo (Paris)	A. Mielke (Stuttgart)	M. Ponsiglione (Trieste)
T. Roubíček (Prague)	P.-M. Suquet (Marseille)	F. Theil (Warwick)
R. Toader (Udine)	L. Truskinovsky (Paris)	A. Visintin (Trento)

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