

# Existence et approximation pour des modèles variationnels de rupture fragile/Existence and approximation for variational models of brittle fracture

*Wednesday, 25 April 2018 09:00 (1 hour)*

We will present recent results obtained in collaboration with S. Conti (U. Bonn), G. Francfort (U. Paris-Nord), V. Crismale (E. Polytechnique, Palaiseau) and F. Iurlano (U. Pierre et Marie Curie, Paris) on the brittle fracture model of Francfort and Marigo (1998), which is a variational version of Griffith's classical model to predict crack growth. We will discuss existence of minimizers for the static problem, phase-field approximation and the issue of non-interpenetration.

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