

Seminarreihe im Rahmen des GRK 2078

Referee: **Prof. Frédéric Lebon**
Aix-Marseille Université, France

Dates: Tuesday, December 14, 2021

Time: 14:00h

Format: IRTG Online Seminar Series

Title: **Asymptotic modeling of solid/solid interfaces (and some experimental results)**

Abstract

Our work focuses on the modelling of interfaces between solids (contact, friction, adhesion, bonding, etc.).

In this presentation, we will present a general methodology based on matched asymptotic theory to obtain families of models.

We will insist on several points:

- the relative rigidity of the interphase (soft or hard)
 - multiphysical couplings (thermal, piezoelectric)
 - the introduction of geometrical or material non-linearities
 - how taking into account of damage
 - numerical procedures adapted to the models obtained
 - implementation of experimental tests
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Alle Interessenten sind herzlich eingeladen.

Prof. Dr.-Ing. Thomas Böhlke
(Sprecher des GRK 2078)