

## Seminar series of the Graduate School GRK 2078

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Referee: **Dr. Hervé Henry**  
Institut Polytechnique de Paris

Dates: Tue, May 23, 2023

Time: 14:00

Location: Building 10.23, 3<sup>rd</sup> floor, Seminar Room 308.1  
Please note that you can also participate in the event online

Title: **Phase field study of crack propagation in heterogenous materials**

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### Abstract

Phase field models have gained popularity as a tool to model crack propagation. They have been proven to reproduce well the results of LEFM and have been used with success in many situations. They should be useful to describe propagating in heterogenous materials. However, some issues remain. In this talk, after an introduction to phase field modeling of crack propagation, I will discuss these difficulties and present some example simulations that show the interest of phase field models.

You are cordially invited to take part in the event.

Prof. Dr.-Ing. Thomas Böhlke  
(Spokesperson of GRK 2078)