

LOCATION

Bildungszentrum Kloster Banz

Kloster Banz 1
96231 Bad Staffelstein



Sebastian Buff - HSS

For the transfer to and from Kloster Banz a rented coach is available for registered participants:

Departure on **Friday, Nov. 17, 2023 at 07:30 h.**
from Cauerstraße (across from the parking house),
Erlangen

Departure on **Saturday, Nov. 18, 2023 at 15:15 h.**
from Kloster Banz, Bad Staffelstein

CONTACT

Spokesperson of GRK 2423 FRASCAL

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Friedrich-Alexander-Universität
Erlangen-Nürnberg

Research Training Group
GRK 2423

Fracture across Scales

3rd RTG Retreat

Nov. 17-18, 2023

Bildungszentrum Kloster Banz
Bad Staffelstein



FRASCAL

GRK 2423

PROGRAMME

Friday, November 17

09:00 - 09:20 CHECK-IN & COFFEE

09:20 - 09:30 **Welcome & Introduction**
Paul Steinmann and Michael Stingl

09:30 - 09:50 **Christian Ritterhoff (P1)**
Fracture of polar perovskite oxides

09:50 - 10:10 **Pascal Frank (P3)**
MD-Simulation of Polysiloxanes

10:10 - 10:30 **Utku Canbolat (P4)**
*Image-Informed Fracture Model for
Complex-Shaped Particles in Discrete
Element Simulations*

10:30 - 11:00 COFFEE BREAK

11:00 - 11:20 **Shucheta Shegufra (P5)**
Failure of Highly Porous Material

11:20 - 11:40 **Felix Weber (P6)**
*Multiscale Fracture Simulations of
Silica Glass*

11:40 - 12:00 **Christian Greff (P7)**
*Fracture Surface Geometry in 3D
Hierarchical Material Adhesion*

12:00 - 13:00 LUNCH BREAK

13:00 - 15:30 **Walk & Talk**
Scientific Hiking Tour

15:30 - 16:00 COFFEE BREAK

16:00 - 16:20 **Maurice Rohracker (P8)**
*Influence of the Irreversibility Strategy in
Phase-Field Fracture Simulations*

16:20 - 16:40 **Deepak Jadhav (P9)**
*Asynchronous Variational Integrators for
Elastodynamics and for a Phase Field
Model of Dynamic Fracture*

16:40 - 17:30 **CVs and experiences of
FRASCAL External Advisory
Board Member**

17:30 - 18:30 DINNER

19:00 **Team Building Activities**



PROGRAMME

Saturday, November 18

07:30 - 09:00 BREAKFAST

09:00 - 09:20 **Marie Laurien (P10)**
Peridynamic Fracture Mechanics

09:20 - 09:40 **Lennart Igel (P11)**
*Stochastic Optimization with High
Dimensional Uncertainties with
Application to Fracture Control*

09:40 - 10:00 **Lukas Laubert (P6)**
French-German Collaboration BIO ART

10:00 - 10:30 COFFEE BREAK

10:30 - 10:50 **György Hantal (P12)**
*Coupling molecular dynamics with
continuum mechanics for
thermoset polymers*

10:50 - 11:10 **Joscha Seutter (P14)**
*Variational Models for Brittle Fracture and
Crack Growth*

11:10 - 12:00 **Sebastian Pfaller**
Research Data Management (RDM)

12:00 - 13:00 LUNCH BREAK

13:00 - 13:20 **Miguel Ángel Moreno-Mateos**
*Soft Fracture: Electro-Magnetical
Modulation & Configurational Mechanics*

13:20 - 13:40 **Poster Blitz**
Associated projects and Start-Ups

13:40 - 15:00 **Poster Session with Coffee**

15:00 - 15:10 CLOSING