

LOCATION

Hotel Arvena Reichsstadt

Pastoriusstraße 5
91438 Bad Windsheim



For the transfer to and from Bad Windsheim a rented coach is available for registered participants:

Departure on **May 5, 2022 at 8:00 a.m.**
at Cauerstraße, Erlangen

Departure on **May 6, 2022 at 5:00 p.m.**
at Hotel Arvena Reichsstadt, Bad Windsheim

CONTACT

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Friedrich-Alexander-Universität
Erlangen-Nürnberg

Research Training Group
GRK 2423

Fracture across Scales

2nd RTG RETREAT

May 5-6, 2022

Hotel Arvena Reichsstadt
Bad Windsheim



FRASCAL
GRK 2423

PROGRAMME

Thursday, May 5

09:00 - 09:20 CHECK IN & COFFEE

09:20 - 09:30 **Welcome & Introduction**
Prof. Paul Steinmann (spokesperson)

09:30 - 09:45 **Christian Ritterhoff (P1)**
Machine-Learned Potentials for Atomistic Crack Tip Investigations

09:45 - 10:00 **Shucheta Shegufra (P5)**
Failure of Highly Porous Material

10:00 - 10:15 **Felix Weber (P6)**
Systematic Analysis and Parameter Optimization of the Multiscale Capriccio Method

10:15 - 10:30 **Christian Greff (P7)**
Fracture Surface Geometry in 3D Hierarchical Material Adhesion

10:30 - 11:00 COFFEE BREAK

11:00 - 11:15 **Maurice Rohracker (P8)**
Some Computational Aspects of Phase-Field Models for Brittle Fracture

11:15 - 11:30 **Deepak Jadhav (P9)**
Finite Element Modeling of Osteoporotic Pelvic Ring and Extension of Project P9 into Temporal Adaptivity

11:30 - 11:45 **Marie Laurien (P10)**
Peridynamic Fracture Mechanics

11:45 - 12:00 **CVs and experiences of FRASCAL PAs**

12:00 - 13:15 LUNCH BREAK

13:15 - 15:00 **Workshops - Part 1**
DR, aDR, PD: *Workshop Research Data Management (RDM)*
PAs: *Workshop Renewal Proposal*

15:15 - 18:15 **WALK with SNACK**

18:30 - 20:00 **DINNER**

20:00 - 20:30 **Presentation of the intermediate results of the RDM workshop**



PROGRAMME

Friday, May 6

08:00 - 09:00 BREAKFAST

09:15 - 09:30 **Lennart Igel (P11)**
Stochastic Optimization with High Dimensional Uncertainties with Application to Fracture Control

09:30 - 09:45 **Bakul Mathur (P13)**
Thermo-Hydro-Mechanical Simulation of Cooling-Induced Fault Reactivation

09:45 - 10:00 **Joscha Seutter (P14)**
Variational Models for Brittle Fracture and Crack Growth

10:00 - 10:20 **Poster Blitz**

10:20 - 12:00 **Poster Session with Coffee**

12:00 - 13:15 LUNCH BREAK

13:15 - 14:30 **Workshops - Part 2**
DR, aDR, PD: *Workshop Research Data Management (RDM)*
PAs: *Workshop Renewal Proposal*

14:30 - 15:00 COFFEE BREAK

15:00 - 15:30 **CVs and experiences of FRASCAL PAs**

15:30 - 16:30 **Results of the Workshops**

16:30 - 17:00 **CLOSING**