

CONTACT

Coordination of GRK 2423 FRASCAL

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To receive the Zoom link to the event, please
write a short mail to andrea.dakkouri@fau.de.

Announcement:

April 22 to July 22, 2021
1st FRASCAL Virtual Colloquium



More information and online
registration:
www.frascal.fau.eu/fvc



FRIEDRICH-ALEXANDER
UNIVERSITÄT
ERLANGEN-NÜRNBERG

Research Training Group
GRK 2423

Fracture across Scales

5th RTG SEMINAR

Friday, April 23, 2021 - Part I
and
Friday, April 30, 2021 - Part II

Online



FRASCAL

GRK 2423

23 April 2021 – Part I

14:10 – 14:20 WELCOME & INTRODUCTION

14:20 – 14:40 Julian Konrad (P3)

*Reorganization Processes in Epoxy Resins
along Tensile Deformation*

14:40 – 15:00 Tarakeshwar Lakshmipathy (P2)

*On the Influence of Lattice Discreteness on
Fracture Mechanics*

15:00 – 15:20 BREAK

15:20 – 15:40 Tobias Müller (P1)

*The Ongoing Quest for the Correct Boundary
Conditions*

15:40 – 16:00 Sukhminder Singh (P11)

*Material Optimization to Enhance Delamination
Resistance of Heterogeneous Structures*

16:00 – 16:20 BREAK

16:20 – 16:40 Christian Wick (P12)

*Towards Understanding Mechanochemistry in
Epoxy Resins*

16:40 – 17:00 Christof Bauer (P6)

*Switching Between FE and MD Descriptions
and Vice Versa: Current Achievements*

30 April 2021 – Part II

14:15 – 14:20 WELCOME & INTRODUCTION

14:20 – 14:40 Jonas Ritter (P5)

*The Anisotropic Elastic Behaviour of Porous
Snow under Compression*

14:40 – 15:00 Ali Mauricio Velasco Sabogal (P4)

*Modelling Grain Fracture within DEM
Simulations*

15:00 – 15:20 BREAK

15:20 – 15:40 Paras Kumar (P8)

*Phase-Field Fracture Models in Finite
Deformation Setting*

15:40 – 16:00 Nosaibeh Esfandiary (P7)

*Adhesion and Detachment of Hierarchical
Structures: Critical and Subcritical Failure*

16:00 – 16:20 BREAK

16:20 – 16:40 Dhananjay Phansalkar (P9)

*Uniform and Adaptive ϵ in Phase-Field
Models for Brittle Fractures*