FRASCAL GRK 2423

Zentralinstitut SCIENTIFIC COMPUTING

FRIEDRICH-ALEXANDER UNIVERSITÄT ERLANGEN-NÜRNBERG

FRASCAL's Recruitment Symposium: Preliminary Schedule of Applicants' Presentations

Thursday, October 11th
Seminar room 2.049 (RRZE Erlangen)
Martensstraße 1, 91058 Erlangen

Time	Name	Title of Presentation	Invited by
09:00-09:30 Welcome Address, Introduction			
09:30-09:50	Tarakeshwar Lakshmipathy	Simulation of Magnetic Effects in Nickel-Base Alloys using Density Functional Theory	P1 and P2
09:50-10:10	Julian Konrad	Crystals and Polymers	P3
10:10-10:30	Ali Mauricio Velasco Sabogal	From Coffee Mixing and Auditory Organs to the Milling Processes	P4
10:30-10:50	Jonas Ritter	Mixed-Mode Failure of Porous Cohesive Granular Materials: Application to Snow Failure	P5
10:50-11:10 Coffee Break			
11:10-11:30	Juan Esteban Alvarez Naranjo	Multiscale Dynamic Transition of Heterogeneous Materials	P6
11:30-11:50	Rico Morasata	Peridynamics: A Novel Continuum Formulation	P6
11:50-12:10	Nosaibeh Esfandiary	Network Modeling of Fracture in Materials with Hierarchical Microstructures	P7
12:10-12:30	Paras Kumar	Energy Corrected Finite Elements for Elliptic BVPs and Linear Elasticity	P8
12:30-12:50	Chaitanya Dev	Method of Moving Asymptotes: An optimization method for structural optimization	P8
12:50-14:00 Lunch Break			

14:00-14:20	Elmira Birang	Finite Element Model of Strong Discontinuities	P10
14:20-14:40	Iman Valizadeh	Brief Introduction to Growth-Induced Instabilities in Living Materials	P10
14:40-15:00	Sukhminder Singh	Numerical Homogenization for Poroelastic Media	P11
15:00-15:20	Christian Wick	Modelling of Enzymes and other (Bio-)Polymers: From Force Fields to Quantum Mechanics and back	P12
15:20-15:40 Coffee Break			
15:40-16:00	Soroush Dabiri	My Expertise and Plan for the Project P4 on Fragmentation in Large Scale DEM Simulations	P4 (Skype)
16:00-16:20	Ehsan Mikaeili	Extended finite element method for modeling the shear band growth in porous media	P5 and P9 (Skype)
16:20-16:40	Muhammad Qasim	Numerical Solution of Time-dependent Allen-Chan Equation using Finite Element Method	P9 (Skype)