9th bwHPC Symposium

Monday, October 23, 2023

Talks: Applied Mathematics and Engineering - Aula (11:30 AM - 12:00 PM)

   -Conveners: (Chair) Jordan Asenov Denev

time	[id] title	presenter
11:30 AM	[163] A Fully Parallelized and Budgeted Multi-Level Monte Carlo Method and the Application to Acoustic Waves	BAUMGARTEN, Niklas
11:45 AM	[171] Simulation of pyrolysis process of waste plastics	Dr ZHANG, Feichi

Talks: Advanced Workflows and Data Management Methods in Materials Science and High Energy Physics - Aula (1:00 PM - 2:00 PM)

   -Conveners: (Chair) Bernd Wiebelt

time	[id] title	presenter
1:00 PM	[168] Concurrent multi-scale simulation of lubrication, enabled by machine learning	Prof. PASTEWKA, Lars
1:15 PM	[169] Exploring the limits of new physics at the LHC	SCHMAL, Nikita
1:30 PM	[176] End-user data analysis at the LHC	FALTERMANN, Nils
1:45 PM	[173] Fair sharing of resources between clusters with AUDITOR	Dr ROTTLER, Benjamin

Talks: Computational Chemistry and Materials Science - Aula (2:15 PM - 3:00 PM)

   -Conveners: (Chair) Christian Mosch

time	[id] title	presenter
2:15 PM	[164] Propane/Propylene Separation via Molecular Dynamics Simulations in Metal-Organic Frameworks.	Dr SUYETIN, Mikhail
2:30 PM	[166] Computational Microstructure Exploration for Batteries: Leveraging High Performance Computing	Mr WEINMILLER, Julius
2:45 PM	[167] Advanced Training-Data Generation for Machine-Learned Potentials	SCHÄFER, Moritz René

Talks: Bioinformatics, Geosciences and Global Systems Science - Aula (3:30 PM - 4:15 PM)

   -Conveners: (Chair) Jens Krüger

time	[id] title	presenter
3:30 PM	[165] Introducing Galaxy: A new cloud and HPC gateway for data-driven computational research	Mr SRIKAKULAM, Sanjay Kumar
3:45 PM	[174] The agroecosystem multi-model library, Expert-N on high-performance computers (HPC)	RETTIE, Fasil Mequanint
4:00 PM	[175] High-resolution global weather simulations with the Model for Prediction Across Scales (MPAS) on the Hawk HPC system	SCHWITALLA, Thomas