17th EC2/BIG-NSE Workshop

Start Time: Friday, January 12, 2024 01:30 pm

End Time: Friday, January 12, 2024 05:00 pm

C264
TU Berlin, Straße des 17. Juni 115, 10623 Berlin, C Building

As every year, once their "initial phase" is finished, the new PhD students of EC^2/BIG-NSE have the opportunity to present their PhD work plan in front of the UniSysCat community.

The scope of the presentations ranges from theory to application on all aspects of catalysis: Organic/Inorganic chemistry, heterogeneous catalysis, biotechnologies, biocatalysis etc.: all interested scientists are welcome!

Time	Programme	Lecturer	Superv
13:40-13:50	Welcome words	Maria Andrea Mroginski	
13:50-14:10	Aldehyde oxydase constant of Michaelis prediction using machine learning	Daniil Lepikhov	Ariane Alves, Leimkü Mrogin
14:10-14:30	Obtaining a dynamic picture of biological carbon fixation by computational spectroscopy and simulations	Denise Poire	Marius Maria M
14:30-14:50	Elucidating coupling and reactivities in an ATPase driven reductase complex by vibrational spectroscopy and quantum chemical computations	Zishuo Zhang	Ingo Ze Mrogin
14:50-15:10	Coffee break		
15:10-15:30	Improved photosystem coupling and a novel spectral-tuning approach in light-driven formate production	Laura Mages	Dennis Athina Patrick
15:30-15:50	Structural basis of rhomboid protease substrate recognition and transmembrane helix arrangement by cryo-EM and integrative modeling	Enlin Zheng	Daniel Adam Sun
15:50-16:10	Coffee break		
16:10-16:30	Identification and characterization of halogenases acting on	Jonas Motter	Peter

	nucleoside scaffolds		Neubau Sun
16:30-16:50	Reductive catalytic fractionation of waste cellulosic-biomass to functional chemicals and subsequently to green polymers	Camila Dias	Majd A Markus Peter N
16:50-17:00	Closing remarks	Maria Andrea Mroginski	