

Thursday 8th of August 2024

KIT Campus North – Institute of Microstructure Technology (IMT)
Seminar Room

Program Schedule

Time	Contribution	Presenter (Organization)
10:30 - 10:40	Welcome and workshop objectives	D. Kunka (IMT, KIT)
10:40 - 10:55	Short introduction of the participants	
10:55 - 11:10 11:10 - 11:20	Trajectory analysis and entropic measure applied to live systems. Discussion	Prof. Estevez-Rams (Physics, University of Havana)
11:20 - 11:35	Brain mapping through entropy analysis	A. Mesa-Rodríguez (Max Planck Institute PKS, Dresden)
11:35 - 11:45	Discussion	
11:45 - 12:00	Sparse sampling in data management	K. Garcia-Medina (FAU Erlangen)
12:00 - 12:10	Discussion	
12:10 – 12:25	ECO state network and attractor reconstruction	D. Estévez Moya (Max Planck Institute PKS, Dresden)
12:25 – 12:35	Discussion	
12:35 – 13:50	Lunch at the Cantina	
13:50 - 14:05 14:05 - 14:15	Predicting cancer and immune cell phenotypes using birefringent coherent diffractive imaging Discussion	Prof. Foh tung (Rensselaer Polytechnic Institute, NY)
14:15 - 14:30	Surface functionalization for bioanalytical applications. Discussion	K. Länge (IMT, KIT)
14:30 - 14:40		
14:40 – 14:55	Bioinspired systems	S. Reza (IMT, KIT)
14:55 – 15:05	Discussion	
15:05 – 15:20	Coffee Break	
15:20 - 15:35	NanoCT for bio applications	R. Debastiani (INT, KIT)
15:35 - 15:45	Discussion	
15:45 - 16:00	X-ray free electrons laser for studying ultrafast dynamics. Discussion	D. Vinci (IMT, KIT)
16:00 - 16:10		
16:10 - 16:25	Spatial harmonic analysis in correlative X-ray imaging. Discussion	J.L. Beltrán (IMT, KIT)
16:25 - 16:35		
16:35 - 16:50	Interferometric and non-interferometric methods in correlative X-ray imaging. Discussion	D. Kunka (IMT, KIT)
16:50 - 17:00		
17:00 - 17:20	Wrap up & following joint research activities	D. Kunka, all
17:20 -	Separate discussion with a group of participants on funding applications via NSF-DFG, DAAD, DFG-DFGdev, and Humboldt proposals. Discussion on common papers in progress.	led by D. Kunka