## **CMPC Workshop 2023**

## "Advanced Nanomaterials Characterization by X-ray Diffraction and Scattering Techniques"



The CMPC workshop 2023 will be held in Hamburg, Germany from May 22 to May 23, 2023 in the FLASH seminar room.

## **Program**

Monday, 22 May 2023					
12:00	Registration & sandwich				
12:55	welcome				
Structure and properties of single nanoparticles					
(Chairman: Arka Dey & Florian Bertram)					
13:00	Scanning diffraction microscopy on	Arka B. Dey	DESY		
	epitaxially grown single quantum dot	-ı -	550/11		
13:30	Single nanoparticle X-ray imaging to	Thomas F. Keller	DESY Nanolab		
	follow structural changes during a catalytic reaction	Keller			
14:00	Bragg coherent diffraction imaging at	Fabian	DESY		
14.00	P10 beamline	Westermeier			
14:30	Quantum dot structures for quantum	lan Farrer	University of Sheffield		
	and nanophotonic applications				
15:00	.5:00 Discussions & Coffee break				
Future insights into 3D nanostructure using PETRA IV					
(Chairman: Martin von Zimmermann & Andre Conceição)					
15:30	Watching the growth and	Dorota Koziej	University of Hamburg		
	transformation of nanoparticles in				
10.00	solution Biomaterial nano-structures and	Ernesto	Max-Planck-Institut für		
16:00	composition investigated by x-ray	Scoppola	Kolloid-und		
	scattering	эсорроіа	Grenzflächenforschung		
16:30	Operando X-ray Diffraction Studies	Andreas Stierle	DESY Nanolab		
	from Model Catalysts to Industrial				
	Systems				
17:00	Coherent Diffraction Imaging and	Ivan Vartanians	DESY		
	Angular Cross-Correlation Analysis of				
	Mesocrystalline samples at X-ray				
17:30	energies  Discussions & Poster Session				
18:30	Conference Dinner				

Tuesday, 23 May 2023					
Synthe	sis and function of nanoparticle e	(Chairman: Xiao Sun)			
9:00	Small-angle X-ray scattering and diffraction for investigating highly structured biohybrid nanomaterials based on protein cages and nanoparticles	Tobias Beck	University of Hamburg		
9:30	Studying Structure Formation and Transformation Processes of Nanoparticle Systems by in situ SAXS	Martin Schroer	University of Duisburg-Essen		
10:00	Combining Reverse Monte Carlo Analysis of X-ray Scattering and Extended X-ray Absorption Fine Structure of Small Nanoparticles	Markus Winterer	University of Duisburg-Essen		
10:30	Self-assembly Mechanism and Chiral Transfer in CuO Superstructures	Jun Zhang	DESY		
11:00	<b>Discussions &amp; Coffee break with</b>	n sandwiches			
Confin	Confined condensed matter and structures at interfaces (Chairman: Oliver Seeck)				
12:00	In-situ small angle X-ray and neutron scattering from the working electrode in electric double layer capacitors	Malina Seyffertitz	Montanuniversität Leoben		
12:30	Water induced strain in silica nanopores	Lars Damman	DESY & Hamburg University of Technology		
13:00	Shedding X-ray light on electrochemical interfaces and interphases	Hans-Georg Steinrück	University of Paderborn		
13:30	Update on the PETRA IV project, including a proposal for a new rolling access protocol	Oliver Seeck	DESY		
14:00	Summary and Closing				