Workshop on Electron Crystallography

May 30th-31st 2023, Antwerp University

Preliminary program

Day 1				
09:00	09:05	Joke	Hadermann	Welcome
9:05	09:25	Hrushikesh	Chintakindi	*Analysing the frame scaling in the presence of appreciable dynamical diffraction effects of 3D ED data*
9:30	09:50	Erica	Cordero Oyonarte	*Challenges for 3D ED applied to small nanoparticles (below 10 nm)*
9:55	10:15	Romy	Poppe	*Quantitative analysis of diffuse electron scattering*
10:20	10:40	Małgorzata	Cabaj	*Comparison of diffraction patterns generated with multislice simulations and Bloch-wave calculations*
10:45	11:05	coffee		
11:05	11:25	Anil	Kumar	*Experimental and simulated multipole modelling of electron density based on electron diffraction data for organic molecules*
11:30	11:50	Toms	Rekis	*Solving the Phase Problem in Crystallography with Artificial Intelligence*
11:55	12:15	Ashwin	Suresh	*Charge density analysis from 3D ED data*
12:20	14:00	lunch		
14:00	15:30	commercial talks		
15.30	15:50	Lukas	Palatinus	*New features in PETS2: how to make the most of your data*
16:00	17:30	poster session		
18:00	…	social event		
Day 2				
9:00	09:20	Mauro	Gemmi	*3D ED on beam sensitive materials: organics and MOF*
9:25	09:45	Tatiana	Gorelik	*Molecular replacement for small molecule crystal structure determination from electron diffraction data with poor resolution*
9:50	10:10	Paul	Klar	*Absolute structure determination with dynamical refinement*
10:15	10:35	Julian	Holstein	*3D ED structure determination of organic and metal-organic compounds using Singla detector*
10:40	11:00	coffee		
11:00	11:20	Peter	Oleynikov	*Synchronous quantitative analysis of chiral mesostructured inorganic crystals by 3D electron diffraction tomography*
11:25	11:45	Louisa	Meshi	*Structure solution of complex alluminides using 3DED*
11:50	12:10	Joke	Hadermann	*Progress and hurdles for in situ 3DED in gas and liquid environments*
12:15	13:45	lunch		
13:45	14:05	Emre	Yörük	*Charge density refinement on inorganic compounds using electron diffraction*
14:10	14:30	Juan Ignacio	Tirado Castano	*Structure determination of as-made ITQ-52 zeolite by Precession assisted 3D ED*
14:35	14:55	Ercin	Duran	*Electron 3D delta-PDF of bismuth vanadate*
15:00	15:30	coffee		
15:30	15:50	Sara	Passuti	*SPET as a tool to investigate nanodomains in functionals materials*
15:55	16:15	Jungyoun	Cho	*Determining Disorder in Inorganic Materials using 3D Electron Diffraction*
16:20	16:40	Kshitij	Gurung	*Structural determination of XeF2/MF4 (M = Mn, Pd) compounds by 3D electron diffraction*
16:45	17:00	closing		