	Day 0(May 30th) Friday	Day 1 (May 31st) Saturday	Day 2 (June 1st) Sunday	Day 3 (June 2nd) Monday	Day 4 (June 3rd) Tuesday	Day 5 (June 4th) Wednesday	Day 6 (June 5th) Thursday	Day 7 (June 6th) Friday	Day 0 (June 7th) Saturday
08:45		Introduction (directors)	Data reduction	Structure determination	Macromolecules (intro)	Challenges	Specialities	Scanning ED (intro)	
9:00-9:45 AM		Direct and reciprocal space, structure facto - **Eggeman**	Indexing and integration 1. Peak finding – pre-processing, cylindrical projection, reciprocal space sectioningb - **Eggeman**	Global optimisation methods – simulated annealing & Co -**Cuocci**	3D ED/MicroEd on macromolecules challenges (sample prep data collections) - **Clabbers**	Machine Learning - **Westermayr**	In-situ 3D ED - **Hadermann**	CBED/Ptycography - **Liberti**	
9:45-10:30 AM		Diverse approximations for atomic scattering factors - **DOMINIAK**	Indexing and integration 2 - **Brazda**	Phasing by dual-space iterative methods - **Palatinus**	Molecular replacement - **Housset**	AI in crystalloography / Alpha fold - **Tsenkov**	Electron pair distribution function analysis - **Gorelik**	Ptycography - **Liberti**	
10:30-11:00 AM		Coffee	Coffee	Coffee	Coffee		Coffee	Coffee	
11:00-11:45 AM		Elastic inelastic- Kinematical - Dynamical - **Jacob**	Assesment of the data quality (symmetry determination, radiation damage, resolution limit) - **Clabbers**	Kinematical refinement - **Gruene**	Single particle Analysis **- Brown**	Prospects of time resolved crystallography - **Meents**	Nano 3D ED - **Boullay**	Crystallographic phase mapping - **Veron**	
11:45-12:30		Instrumental approached to 3D ED data collection (PEDT; cRED) - **Kolb**	Phase problem Direct methods - **Carrozzini**	Dynamical refinement - **Palatinus**	Serial electron diffraction - **Zou**	Charge density analysis in 3D ED - **Palatinus**	3D ED on disordered structures and 2D crystals - **Gorelik**	4D STEM - **Brown**	
12:30-2:30 PM		Lunch	Lunch	Lunch	Lunch		Lunch	Lunch	
2.30-4.00 PM		Crystallography exercises	SIR exercises - **Carrozzini, Cuocci**	SIR SA - **Cuocci, Carrozzini**	DEMO Phaser - **Housset**		CCDC - **Francia**	ASTAR DEMO - **Veron**	
2.30-4:00 PM			XDS exercises - **Clabbers**	JANA superflip - **Brazda, Palatinus**	DEMO Coot - **Housset**			4D STEM machine learning - **Eggeman**	
4:00-4.30 PM		Coffee	Coffee	Coffee	Coffee		Coffee	Coffee	
4:30-6.00 PM		Dynamics in crystals in the context of quantum crystallography, diffuse scattering - **Madsen**	PETS exercises - **Brazda, Palatinus**	JANA dyn Refinement - **Brazda, Palatinus**	sponsor workshop/demos - Tescan (Daniel Nemecek); Quantum Detectors (Gearoid Mangan); Rigaku (Christian Schürmann); Dectris (Clemens Schulze-Briese)		software for visualisation (Diamond) - **Marchetti**	Py4DSTEM - **Brown**	
4:30-6:00 PM		Crystal structure prediction - **Price**	SHELXT exercise - **Gruene**	OLEX/ShelxL - **Pushmann, Gruene**			Software for visualisation (Crystalmaker) - **Eggeman**	Ptycography - **Liberti**	
6:00 -6.20 PM		Introduction to Erice - **Schmidt**		Quantum Crystallography in materials science **- IVERSEN** (45 minutes)				Closing remarks	
8:00 PM-...		Welcome buffet	Dinner at posters		Posters				

arrivals

Excursion (Dinner provided)

Departures