	Friday 30 May	Saturday 31 May	Sunday 1 June	Monday 2 June	Tuesday 3 June	Wednesday 4 June	Thursday 5 June	Friday 6 June	Saturday 7 June
08:45	Arrival Day	**Introduction (directors)**	**Data reduction**	**Structure determination**	**Macromolecules (intro)**	**Challenges**	**Specialities**	**Scanning ED (intro)**	Departure Day
9:00-9:45 AM		Direct and reciprocal space, structure factor (Shared with QC) **Eggeman**	Indexing and integration 1. Peak finding – pre-processing, cylindrical projection, reciprocal space sectioning **Eggeman**	Global optimisation methods – simulated annealing & Co. **Cuocci**	3D ED/MicroEd on macromolecules challenges (sample prep data collections) **Xu**	Machine Learning **Westermayr**	In-situ 3D ED **Hadermann**	CBED/Ptycography **Liberti**	
9:45-10:30 AM		Atomic scattering factor approx (Dominiak shared with QC) They want to have it earlier first or second day **Dominiak**	Indexing and integration 2. **Brazda**	Phasing by dual-space iterative methods **Palatinus**	Molecular replacement **Housset**	AI in crystalloography / Alpha fold **t.b.c**	Electron pair distribution function analysis **Gorelik**	Ptycography **Liberti**	
10:30-11:00 AM		Coffee Break	Coffee Break	Coffee Break	Coffee Break	Coffee Break	Coffee Break	Coffee Break	
11:00-11:45 AM		Elastic inelastic-Kinematical - Dynamical **Jacob**	Assesment of the data quality (symmetry determination, radiation damage, resolution limit) **Xu**	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 kind of 3D ED (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 Break	Lunch Break	Lunch Break	Lunch Break	Excursion to the island of Mothia	Lunch Break	Lunch Break	
2:30-4:00 PM		Crystallography exercises	SIR exercises **Carrozzini, Cuocci**	SIR SA **Carrozzini, Cuocci**	DEMO Phaser **TBA**		CCDC **Francia**	ASTAR DEMO **Veron**	
2.30-4:00 PM			XDS exercises **Xu**	JANA superflip **Brazda, Palatinus**	DEMO Coot **Housset**			4D STEM DEMO **Eggeman**	
4:00-4:30 PM		Coffee Break	Coffee Break	Coffee Break	Coffee Break		Coffee Break	Coffee Break	
4:30-6:00 PM		**4.30-5:15 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**)		Shared with QC	DEMO / workshop **Brown, Liberti**	
4:30-6:00 PM		**5:15-6:00 PM** Crystal structure prediction **Price**	SHELXT exercise **Gruene**	OLEX/ShelxL **Pushmann, Gruene**			Software for visualisation (Diamond, crystalmaker and Materials Studio) **Marchetti** (**Eggeman**)	DEMO / workshop **Brown, Liberti**	
6:00 PM - 6.30 PM		Introduction to Erice **Schmidt**	Poster Session I (Odd numbred posters)		Poster Session II (Even numbred posters)				
8:00 PM		Welcome buffet	Dinner at posters Pasta Party		Pizza Party				
9:00 PM	Get together party								

	Common lectures EC - QC
	Workshops
	Lectures