

Erice 2018
ELECTRON CRYSTALLOGRAPHY
Course schedule

	Saturday 2 June	Sunday 3 June	Monday 4 June	Tuesday 5 June	Wednesday 6 June	Thursday 7 June	Friday 8 June	Saturday 9 June					
9:00-9:45	Introduction (Annalisa, Paola, Erin, Joke, Lukas, Andy)	Joke Hadermann:Introduction to space group symmetry	Philip Nakashima: Quantitative convergent beam electron diffraction	Peter Müller: Crystal structure refinement by least squares	Laurie Marks: Transmission electron microscopy and high-resolution TEM	Tatiana Gorelik: Pair Distribution functions	Louisa Meshi: Sample preparation for various imaging and diffraction techniques	Workshop: Interpretation and simulations STEM (Christophe Koch)	Workshop: Parallel session Interpretation and simulations HRTEM (Laurie Marks)				
9:45-10:30	Joke Hadermann: Fundamental Crystallography essential for TEM users	Ute Kolb: Spot Diffraction and the principles of Electron Diffraction Tomography	Philip Nakashima: Quantitative convergent beam electron diffraction	Peter Müller: Crystal structure refinement by least squares	Laurie Marks: Transmission electron microscopy and high-resolution TEM	Alexander Eggeman: Scanning diffraction techniques	Ray Withers: Diffuse scattering						
10:30-11:00	Coffee Break	Coffee Break	Coffee Break	Coffee Break	Coffee Break	Coffee Break	Coffee Break	Coffee Break					
11:00-11::45	Jan Pieter Abrahams: General theory of diffraction	Mauro Gemmi: Diffraction data processing for crystallographic applications	Damien Jacob: Symmetry determination by convergent beam electron diffraction	Lukas Palatinus: Crystal structure refinement from specifically electron diffraction data: kinematic and dynamic treatment	Christoph Koch: Scanning transmission electron microscopy	Andrew Stewart: Electron diffraction from soft matter	Xiaodong Zou: Combination of electron diffraction with powder diffraction	Workshop: Serial Electron Diffraction (Stef Smeets)	Workshop: Dynamical refinement from ED (Lukas)				
11:45-12:30	Jan Pieter Abrahams: General theory of diffraction	Lukas Palatinus: Crystal Structure solution methods	Damien Jacob: Symmetry determination by convergent beam electron diffraction	Lukas Palatinus: Crystal structure refinement from specifically electron diffraction data: kinematic and dynamic treatment	Christoph Koch: Scanning transmission electron microscopy	Quentin Ramasse: Spectroscopic techniques	Jan Pieter Abrahams: Diffraction tomography of proteins						
12:30-14:30	Lunch	Lunch	Excursion	Lunch	Lunch	Excursion	Lunch	Lunch					
14:30-15:15	Dirk Van Dyck: Dynamical diffraction theory	Workshop: Electron diffraction tomography (Lukas)		Workshop: Automated Electron diffraction tomography (Andy)	Workshop: Crystal structure refinement by Peter Muller		Workshop: Structure solution and kinematical refinement (Lukas)	Workshop: Structure solution and kinematical refinement (Lukas)	Workshop: Crystal structure refinement by Peter Muller	Workshop: Parallel session Interpretation and simulations HRTEM (Laurie Marks)	Workshop: Interpretation and simulations STEM (Christophe Koch)	Workshop: Serial Electron Diffraction (Xiaodong Zou)	Workshop: Pair distribution function analysis (Tatyana Gorelik)
15:15-16:00	Dirk Van Dyck: Dynamical diffraction theory												
16:00-16:30	Coffee Break	Coffee Break		Coffee Break			Coffee Break		Coffee Break				
16:30-17:15	Fundamental crystallography and indexing (exercises on paper) (Joke and Louisa)	Workshop: Automated Electron diffraction tomography (Andy)		Workshop: Electron diffraction tomography (Lukas)	Workshop: Quantitative CBED (Philip Nakashima)		Workshop: Qualitative CBED: symmetry determination (Damien Jacob)	Workshop: Qualitative CBED: symmetry determination (Damien Jacob)	Worshop: Quantitative CBED (Philip Nakashima)	Workshop: Dynamical refinement from ED (Lukas)	Workshop: Pair distribution function analysis (Tatyana Gorelik)	Future of Electron Crystallography Discussion	Closing Remarks
17:15-18:00	Workshop introduction and sign up												
18:00-18:30	Introduction to Erice (Martin Schmidt)	Poster Session 1		Poster Session 2									
20:00	Sicilian Dinner												
										Farewell Party			