



	Sunday 11.05.2014	Monday 12.05.2014	Tuesday 13.05.2014	Wednesday 14.05.2014	Thursday 15.05.2014	Friday 16.05.2014	Saturday 17.05.2014
8:30 – 10:30		Space Groups I	Mathematical model of a lattice	Thomson scattering and interference of scattered waves	Symmetry in reciprocal space	Patterson Methods	Molecular replacement
10:30 - 11:00 Coffee	Coffee break 30 min						
11:00 – 13:00		Space Groups II	Concept of convolution	Temperature factor	Space group determination	Direct Methods	SAD-MAD techniques
13:00 – 14:00 Lunch	Lunch break 60 min						
14:00 - 16:00	Opening & Discussion of the student's homework	Space Groups III	Fourier transform I	Diffraction by crystals	The Fourier syntheses	Applied methods Session (Chapman, Schneider, Bourenkov Mancuso, White)	
16:00 - 16:30 Coffee	Coffee break 30 min						
16:30 – 18:30	Point Groups, Laue groups	Space Groups IV	Fourier transform II	Bragg's law, Ewald and limiting sphere	The phase problem: ab initio and non ab initio techniques		
18:30	BBQ (Social event) at CFEL						