

**Workshop on
Synchrotron Radiation, Optics, Beamlines & Experimental Techniques**

Iranian Light Source Facility (ILSF)

March 3-4, 2014

Institute for Research in Fundamental Sciences (IPM), Niavaran, Tehran, Iran

	Chair	Time	Name	Subject	
Monday, March 3, 2014	Hossein Khaosroabadi	8:30-9:00	Registration		
		9:00-9:15	Opening		
			Javad Rahighi (ILSF Director)		
		9:15-10:00	David Attwood	Synchrotron Radiation	
		10:00-10:45	David Attwood	Radiation Sources: Bending Magnet, Undulator and Wiggler	
		10:45 – 11:05	Break		
		11:05-11:50	David Attwood	Coherent Radiation: from Undulator to Free Electron Laser	
	11:50 – 12:35	David Attwood	Soft X-ray Beamlines: Optics and Design		
			12:35 – 14:00	LUNCH	
	Hamidreza Oveisi		14:00 – 14:45	Andrea Lausi	The MCX Beamline Design at Elettra
		14:45-15:30	Andrea Lausi	Detector Technology and Design	
		15:30 – 15:50	Break		
		15:50 – 16:35	Andrea Lausi	X-ray Scattering and Diffraction Techniques	
		16:35-17:20	Hossein Khosroabadi	Inelastic X-ray Scattering	
Tuesday, March 4, 2014	Hossein Khaosroabadi	8:30 - 9:30	David Attwood	X-ray Interaction with Matter: Absorption, Scattering, and Refraction	
		9:30 – 10:30	David Attwood	X-ray Microscopy: Soft and Hard X-rays	
		10:30-10:50	Break		
	Hamidreza Oveisi	10:50-11:35	Andrea Lausi	The EXAFS Analysis using Synchrotron Radiation	
		11:35 – 12:20	Andrea Lausi	X-ray Imaging Using Synchrotron and FEL Small Angle	
		12:20 – 14:00	LUNCH		