

Workshop on Powder X-ray Diffraction and Small Angle Scattering

Venue : HR4, IISER, Pune

Dates : May 15-16, 2012

A two day workshop on Powder Diffraction and Small Angle X-ray/Neutron Scattering is being organized for the Ph. D. students from IISER Pune, NCL and University of Pune. This is a focused workshop to give the students an introduction to x-ray diffraction and small angle scattering, and to provide them with a theoretical background and hands-on-experience of data analysis using the technique of Rietveld refinement of powder diffraction data.

May 15, 2012

TIME	TITLE	SPEAKER
9.30 am-10.00 am	REGISTRATION	
10.00 am – 11.00 am	X-rays and X-ray Techniques (overview)	Dr. Sunil Nair (IISER Pune)
11.00 am – 11.30 am	Tea Break	
11.30 am – 12.30 pm	Powder Diffractometer- Instrument Details	Brucker
12.30 pm – 1.30 pm	X-ray Powder diffraction- Basic Analysis	Dr. Vaidyanathan (IISER Pune)
1.30 pm – 2.30 pm	Lunch	
2.30 pm – 3.30 pm	Study of magnetic materials through neutron diffraction	Dr. P. D. Babu (UGC-DAE-CSR, Mumbai)
3.30 pm – 4.30 pm	Small angle scattering from nano and bio- materials	Dr. V.K. Aswal

May 16, 2012

TIME	TITLE	SPEAKER
10.00 am – 11.00 am	X-rays technique for thin film study	Dr. S.K. Deshpande
11.00 am – 11.30 am	Tea Break	
11.30 am – 1.30 pm	Rietveld refinement : a practical approach for characterization of the materials. (will resume after lunch, if required)	Dr. S. N. Achary, (BARC, Mumbai)
1.30 pm – 2.30 pm	Lunch	