

Double Crystal Monochromators Workshop

13 and 14 May 2014



ILL Chadwick Amphitheatre

Tuesday 13 May

08:30 - 09:00	Registration
09:00 - 09:15	Welcome by the Directors of Experiments Division : B. Dijkstra
09:15 - 09:30	Opening remarks : Ray Barrett

Session I: Current capabilities and future needs

09:30 - 10:00	Overview and future needs for ESRF spectroscopy Double Crystal Monochromators	Olivier Mathon ESRF
10:00 - 10:20	Overview of DCMs at SPring-8/SACLA	Haruhiko Ohashi SPring-8
10:20 - 10:50	Coffee break	

Session II: Current capabilities and future needs continuation

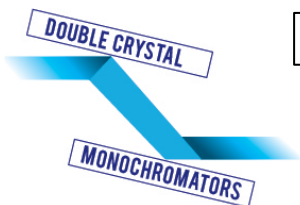
10:50 - 11:20	Overview of performance and improvements to fixed exit Double Crystal Monochromators at Diamond	Andy Dent Diamond
11:20 - 11:50	Hard X-ray Monochromators at PETRA III	Horst Schulte-Schrepping Petra III
11:50 - 12:20	Characterization of the dynamic performance of Double Crystal Monochromators at the Alba light source	Josep Nicolas ALBA
12:30 - 14:00	Lunch	

Session III: Developments and Industrial capabilities

14:00 - 14:30	Industrial suppliers - an engineering overview	Robert Baker ESRF
14:30 - 15:00	Design and performance for the air-bearing mono at APS GSECARS	Matt Newville APS
15:00 - 15:30	First test experiments with Oxford-FMB direct drive DCM at the Sirius beamline of Synchrotron SOLEIL	Gianluca Ciatto SOLEIL
15:30 - 16:00	Coffee Break	

Session IV: Developments and Industrial capabilities continuation

16:00 - 16:20	SPring-8 Standard Monochromators	Hiroshi Yamazaki SPring-8
16:20 - 16:50	Double-crystal CINEL mono at the GALAXIES inelastic / photoemission (undulator) beamline	James Ablett SOLEIL
16:50 - 17:30	Discussion	
18:30	Bus Departure for Dinner at the Auberge des 3 Pucelles, St Nizier	



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Wednesday 14 May

Session V: General/mechanics

08:30 - 09:00	New DCM for spectroscopy: engineering challenges	Yves Dabin ESRF
09:00 - 09:30	Development of a DLS Double Crystal Monochromator	Jon Kelly Diamond
09:30 - 10:00	Flexural stages design for crystal monochromators at the APS	Deming Shu APS
10:00 - 10:30	Discussion	
10:30 - 11:00	Coffee Break	

Session VI: Monochromator Characterization

11:00 - 11:30	Vibrations in the DCM and their effect on the beam stability and source broadening	Ilya Sergeev Petra III
11:30 - 12:00	Monochromator Vibration Considerations	Curt Preissner APS
12:00 - 12:30	Off-line characterization and optimization of monochromators	Simon Alcock Diamond
12:30 - 13:40	Lunch	

Session VII: Around the crystal

13:40 - 14:10	Thermal, mechanical deformation and stability of Monochromator Crystals under high heat load	Lin Zhang ESRF
14:10 - 14:40	Status of LN-cooled monochromator efforts at SSRL	Thomas Rabedeau SSRL
14:40 - 15:10	DLS Development of an Improved Stability Crystal Cage	Andy Peach Diamond
15:10 - 15:30	Coffee Break	
15:30 - 17:00	Session VIII: Round table and concluding remarks Animators: Jean Susini, Ray Barrett, Pieter Glatzel and Andreï Rogalev	
17:00	End of the workshop	