

"X-ray coherent diffraction" Workshop,

December 14-15, 2009

| Monday Dec 14, 2009 | | |
|---------------------|---|-----------------------|
| 08:30 - 09:00 | Registration | |
| 09:00 - 09:10 | Welcome and introduction | Michel Van der Rest |
| 09:10 - 10:00 | Coherent and time resolved diffraction capabilities at SOLEIL | Paul Morin |
| 10:00 - 10:50 | Opportunities for using coherence for studying strain | Ian Robinson |
| 10:50 - 11:20 | Coffee break | |
| 11:20 - 12:10 | Direct structure determination from nanocrystal diffraction | Veit Elser |
| 12:10 - 13:00 | Shape, Strain and Stacking Faults Using Coherent Bragg Imaging: Study of Heterogeneous Nanowires and Strained Silicon Lines | Vincent Favre-Nicolas |
| 13:00 - 14:00 | Lunch at SOLEIL restaurant | |
| 14:00 - 14:30 | Coffee | |
| 14:30 - 15:20 | Coherence at the ESRF | Harald Reichert |
| 15:20 - 16:10 | Coherent X-ray imaging in the weakly scattering limit | Pierre Thibault |
| 16:10 - 16:40 | Coffee | |
| 16:40 - 17:30 | Coherent X-ray imaging at SPRING8 | Yukio Takahashi |
| 17:30 - 19:00 | Visite SOLEIL / Poster Session /Appetizers | |
| 19:00 - 20:30 | Buffet Diner | |

| Tuesday Dec 15, 2009 | | |
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| 09:00 - 09:50 | The coherent hard x-ray instruments at LCLS: X-ray Correlation Spectroscopy and Coherent X-ray Imaging | Aymeric Robert |
| 09:50 - 10:40 | X-ray photon correlation spectroscopy: principle and applications to soft matter systems | Doru Constantin |
| 10:40 - 11:10 | Coffee break | |
| 11:10 - 12:00 | Finding order in disorder by X-ray speckle cross correlation | Peter Wochner |
| 12:00 - 12:50 | Mapping the conformations of biological objects | Abbas Ourmazd |
| 12:50 - 14:00 | Lunch at SOLEIL restaurant | |
| 14:00 - 14:30 | Coffee | |
| 14:30 - 15:20 | Table-top laser-based coherent X-ray sources | Philippe Zeitoun |
| 15:20 - 16:10 | Studying magnetization dynamics at XUV/X-FELs | Jan Luning |
| 16:10 - 16:40 | Coffee break | |
| 16:40 - 17:30 | Coherent X-ray Optics Metrology | Mourad Idir |
| 19:00 - 20:00 | Diner at SOLEIL restaurant | |

XFEL Meeting, December 16, 2009

| Wednesday Dec 16, 2009 | | |
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| 09:00 - 09:50 | Opportunities using coherent radiation at the European XFEL | Thomas Tschentscher |
| 09:50 - 10:40 | Coherent diffractive imaging at FLASH | Ivan Vartanyants |
| 10:40 - 11:10 | Coffee | |
| 11:10 - 12:00 | Towards 100 femtosecond crystallography: first frame of molecular movies | Eric Collet |
| 12:00 - 12:50 | Strain analysis and imaging by coherent x-ray diffraction | Stéphane Labat |
| 12:50 - 13:50 | Lunch | |
| 13:50 - 14:10 | Coffee | |
| 14:10 - 16:10 | Open session: Foreseen experiments at the European XFEL, SCSS and LCLS. Open contributions | Thomas Tschentscher, Yukio Takahashi, Aymeric Robert + proposers |
| 16:10 - 16:20 | Closing remarks | |