XFEL Science:
From current Highlights to future Capabilities

Annual meeting of the GDRi XFEL-Science
11 – 12 December 2017

9:30 – 10:00 Registration and Coffee

10:00 – 10:10 Welcome and Introduction
Jan Luning (XFEL-Science coordinator / LCPMR, Paris)

10:10 – 10:55 European XFEL: First Experiments and Next Steps towards Full Operation
Michael Meyer (European XFEL, Hamburg)

10:55 – 11:10 XFEL Science and the point of view of the INP@CNRS
Emmanuelle Lacaze (INP@CNRS, Paris)

11:10 – 12:30 Presentation and Discussion of Instrumentation Projects in France
Workshop participants

12:30 – 14:00 Poster Session & Buffet Lunch

14:00 – 14:45 FLASH: Current Highlights and Upcoming Developments
Elke Ploenjes-Palm (DESY, Hamburg)

14:45 – 15:10 Time-resolved serial crystallography at XFELs to watch proteins at work
Martin Weik (IBS, Grenoble)

15:10 – 15:35 Structural and spectroscopic studies of Photosystem II and model complexes at XFELs
Benedikt Lassalle (Synchrotron SOLEIL, Gif-sur-Yvette)

15:35 – 16:00 Coffee Break

16:00 – 16:45 Frontier Research at FERMI and Upcoming Developments
Filippo Bencivenga (FERMI@ELETTRA, Trieste)

16:45 – 17:05 X-ray switching with visible transient grating
Valentin Besse (Université du Maine, Le Mans)

17:05 – 17:30 Ultrafast evolution and transient phases of a prototype out-of-equilibrium
Mott–Hubbard material
Niloufar Nilforoushan (LPS, Orsay)

17:30 – 19:00 Annual plenary meeting of the GDRi XFEL-Science

19:30 Dinner
8:45 – 9:00 Registration and Coffee

9:00 – 9:25 Probing dynamics with X-ray scattering and absorption
Marco Cammarata (Institut de Physique de Rennes, Rennes)

9:25 – 9:50 Fast & Ferrous: Understanding the emergence of functions in photoactive molecular materials by decoupling electronic and structural dynamics
Eric Collet (Institut de Physique de Rennes, Rennes)

9:50 – 10:10 Dynamical fluctuations at Sn adatoms on the prototypical Ge(111)R3xR3 surface: CELIA and FLASH experiments
Guy Le Lay (PIIM, Marseille)

10:10 – 10:40 Coffee break

10:40 – 11:05 Highlights from recent femtosecond pump-probe gas-phase experiments at LCLS, SACLA, FLASH and FERMI
Marc Simon (LCPMR, Paris)

11:05 – 11:30 Photochemical reaction dynamics of Ru₃(CO)₁₂ studied by picosecond and femtosecond X-ray solution scattering at ESRF and LCLS
Qingyu Kong (Synchrotron SOLEIL, Gif-sur-Yvette)

11:30 – 11:55 Towards experimental photoinduced dynamics within isolated proteins and DNA strands
Jean-Christophe Poully (CIMAP, Caen)

12:00 – 13:45 Lunch & Coffee

13:45 – 14:10 fs-XANES to unravel the phase transition dynamics from solid to warm dense matter
Noémie Jourdain (CELIA, Bordeaux)

14:10 – 14:35 Probing Ultrafast Magnetization Dynamics with fs-short X-ray Pulses
Boris Vodungbo (LCPMR, Paris)

14:35 – 15:00 Concluding Discussion and Workshop Closure