

Belgian Biophysical Society

School on Biomolecular X-ray and Neutron Diffraction Techniques

Programme

Day 1 Introduction and trends

09.00 – 10.45 Prof. Federico Forneris (University of Pavia)

X-ray and neutron scattering: basics and fundamentals (preliminary title)

11.00 – 12.45 Dr. Thomas Schneider (EMBL Hamburg c/o DESY)

Crystallography latest trends I (preliminary title)*

12.45 – 13.30 lunch break

13.30 – 15.15 Dr. Leonard Chavas (Synchrotron SOLEIL)

Crystallography latest trends II (preliminary title)

15.30 – 17.15 Prof. Isabelle Daniel (Université Claude Bernard Lyon1)

XANES to study microbial metabolism (preliminary title)

**latest trends: interface with EM, serial crystallography, in vivo crystallography*

Day 2 SAXS/SANS

09.00 - 10.45 TBD

11.00 – 12.45 Lise Arleth (The Structural Biophysics Group, University of Copenhagen)

12.45 – 13.30 lunch break

13.30 – 15.15 Dr Paul Bernado (Centre de Biochimie Structurale, Montpellier)

Protein Dynamics. A SAXS perspective

15.30 – 17.15 Dr. Nicholas Brooks (Imperial College London)

18.00 – ... Dinner and social evening

Day 3 Dynamics and liquids

09.00 - 10.45 Prof. Ian Robinson (University College London)

Coherent Imaging Methods with XFELs

11.00 – 12.45 Prof. Arwen Pearson (Center for Free-Electron Laser Science)

XFEL applications (preliminary title)

12.45 – 13.30 lunch break

13.30 – 15.15 Dr. Giorgio Schiro (Institut de Biologie Structurale, Grenoble)

Probing protein structural dynamics by neutron scattering

15.30 – 17.15 Prof. Roland Winter (TU Dortmund)

Phase transitions of biological systems explored by scattering methods

17.15 – 17.30 Concluding remarks