# 2ème Journée Science autour des FEL-XFEL

**6 Avril 2023**
**CNRS - Paris**

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| **09h15 - 09h45** | **Accueil et quelques mots de bienvenue** |
| **09h45 – 10h15** | **Conférence invitée**<br>Marie-Emmanuelle Couprie, Synchrotron SOLEIL, Gif sur Yvette<br>*30 min* |
| **10h15 – 11h35** | **Projets instrumentaux** |
| 10h15 – 10h35 | *Time-resolved x-ray diffraction for condensed matter at E-XFEL. Coexisting states studied at FXE and instrument development at MID* par Vincent Jacques, LPS, Orsay<br>*20 min* |
| 10h35 – 10h55 | *Combining ultrafast X-Ray and Infrared techniques for monitoring and driving phase transitions* par Gaël Privault, IPR, Rennes<br>*20 min* |
| 10h55 – 11h15 | *TRESOR: Time-Resolved Electron Spectroscopy in gas phase for Original Research at EuXFEL* par John Bozek, SOLEIL, Gif sur Yvette<br>*20 min* |
| 11h15 – 11h35 | *Microcrystal injection for serial crystallography* par Giorgio Schiro, IBS, Grenoble<br>*20 min* |
| *11h35-11h55* | *Pause* |
| **11h55 – 12h35** | **Matière en conditions extrêmes** |
| 11h55 –12h15 | *Experimental determination of the local structure of liquid silicates up to 350 GPa* par Guillaume Morard, ISterre, Grenoble<br>*20 min* |
| 12h15 – 12h35 | *Accessing microscopic and macroscopic electronic properties of matter under extreme conditions* par Marion Harmand, IMPMC, Paris<br>*20 min* |

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*12h35 – 14h00* *Pause Déjeuner*

**14h00 – 14h30** **Conférence invitée**
Elke de Zitter, IBS, Grenoble
*30 min*

**14h30 – 15h30** **Dynamique ultra-rapide en matière condensée**

14h30 – 14h50 *Ultrafast Dynamics of Non-reversible Photo-induced Phase Transition in the RbMnFe Prussian Blue Analogue Studied by Time-resolved X-ray Diffraction and Absorption Spectroscopy* par Marius Hervé, IPR, Rennes
*20 min*

14h50 – 15h10 *Spectroscopy and imaging with XUV vortex beams* par Maurizio Sacchi INSP et Synchrotron SOLEIL
*20 min*

15h10 – 15h30 *Dynamics of a Charge Density Wave Systems observed at LCLS and at E-Xfel* par David Le Bolloc'h, LPS Orsay
*20 min*

*15h30 – 15h50* *Pause*

**15h50 – 16h10** **Femto-cristallographie**

15h50 – 16h10 *Insights into carotenoids excited-state structural-dynamics by application of serial femtosecond crystallography to the orange-carotenoid protein* par Jacques-Philippe Colletier, IBS, Grenoble
*20 min*

16h10 – 16h30 *Photoswitchable fluorescent proteins: What we have learnt so far through ,time-resolved crystallography at XFELs'* par Martin Weik, IBS, Grenoble
*20 min*

**16h30 – 17h10** **Milieux dilués**

16h30 – 16h50 *Aspects dynamiques de la formation d'états à doubles lacunes en couche interne d'atomes et de molécules par absorption successive de 2 photons* par Marc Simon, LCPMR, Paris
*20 min*

16h50 – 17h10 *An atomic two-color XUV interferometer* par Francis Penent, LCPMR, Paris
*20 min*

**17h10 – 17h30** **Conclusions**