

*Centre International de Séjour (CIS)  
Val-Cenis*

9:30	Meeting point: in front of the Central Building	
10:00	Bus Departure from EPN Campus	
<b>12:30 - 13:30</b>	<b>Lunch at the CIS</b>	
13:45 - 14:00	<b>Introduction by DoRs</b>	
<b>14:00 - 15:30</b>	<b>Session 1 PROBING THE ELECTRONIC PROPERTIES AND STRUCTURE OF MATTER WITH X-RAYS AND LASERS Chair: RAFFAELLA TORCHIO</b>	
14:00 - 14:25	Exploring the Electronic Structure and Magnetism of Oxygen Vacancy-Rich Nanostructures	<b>Vinod PAIDI</b>
14:25 - 14:45	<a href="#">One year of user operation on ID24 HPLF</a>	<b>Jean Alexis HERNANDEZ</b>
14:45 - 15:00	<a href="#">Laser-driven shock compression probed by XAS</a>	<b>Sofia BALUGANI*</b>
15:00 - 15:15	<a href="#">Investigation of CO<sub>2</sub> adsorption on porous materials</a>	<b>Loic BENARIAC-DOUMAL*</b>
15:15 - 15:30	<a href="#">Fundamentals of Organic Friction Modifiers behaviour in the synchrotron X-ray light</a>	<b>Inga KICIOR*</b>
<b>15:30 - 16:00</b>	<b>Coffee Break</b>	
<b>16:00 - 18:00</b>	<b>Session 2 CATALYSIS: ADVANCING THE TECHNOLOGY Chair: Kirill LOMACHENKO</b>	
16:00 - 16:25	<a href="#">Unveiling the role of spectator atoms in catalysis</a>	<b>Alessandro LONGO</b>
16:25 - 16:45	<a href="#">In Situ Characterisation of 2D Materials Growth on Liquid Metal Catalysts by Chemical Vapour Deposition</a>	<b>Valentina BELOVA</b>
16:45 - 17:00	<a href="#">In situ/Operando spectroscopy of emission control catalysts with tender X-rays</a>	<b>Hugo Alexander SUAREZ ORDUZ*</b>
17:00 - 17:15	<a href="#">Influence of the iron substitution level in Pt-CaTi<sub>1-x</sub>Fe<sub>x</sub>O<sub>3-6</sub> perovskite catalyst for room-temperature CO oxidation reaction by X-ray absorption and emission spectroscopy</a>	<b>Luca BUGARIN*</b>
17:15 - 17:30	Activity and stability of IrRu bi-metallic catalyst: Electrochemical and structural analysis	<b>Hridya NEDUMKULAM*</b>



17:30 - 17:45	<a href="#">X-Ray Operando Studies Catalytic Dehydrogenation in LOHC Technology</a>	<b>Olvido IRRAZABAL*</b>
17:45 - 18:00	<a href="#">In situ XRD and XAS study of cobalt-based Fischer–Tropsch catalysts</a>	<b>Lipeng YAO*</b>
<b>18:00 - 22:00</b>	<b>POSTER SESSION &amp; BUFFET DINNER</b>	

## Tuesday 17 October 2023

<b>08:30 - 10:05</b>	<b>Session 3</b> <b>ADVANCED MATERIALS: FROM QUANTUM PHENOMENA TO NANOSTRUCTURES AND SUPERALLOYS</b> <b>Chair: Dimitrios BESSAS</b>	
08:30 - 08:55	<a href="#">Quantum simulations by scattering from crystals</a>	<b>Bjorn WEHINGER</b>
08:55 - 09:15	<a href="#">XMCD as a powerful spectroscopic tool in molecular magnetism</a>	<b>Nathan YUTRONKIE</b>
09:15 - 09:35	<a href="#">Defects role in the optical emission and relaxation dynamics of nano-structured semiconductors</a>	<b>Valentina BONINO</b>
09:35 - 09:50	<a href="#">Evolution of Low Z Elements in Super Dry Reforming Catalyst– Insight by XRS</a>	<b>Soumya Kumar DAS*</b>
09:50 - 10:05	<a href="#">On the use of grain boundary conformed meshes on DVC calculations of in-situ deformation of Ni superalloy</a>	<b>Pedro DAMAS RESENDE*</b>
<b>10:05 - 10:30</b>	<b>Coffee Break</b>	
<b>10:30 - 12:00</b>	<b>Session 4</b> <b>PROTEINS: FROM STRUCTURE TO FUNCTION AND DYNAMICS</b> <b>Chair: Christoph MUELLER-DIECKMANN</b>	
10:30 - 10:50	<a href="#">New opportunities for time-resolved serial crystallography at the new ID29 from the ESRF Extremely Brilliant Source</a>	<b>Julien ORLANS</b>
10:50 - 11:10	<a href="#">Structural dynamics of the gene regulator carH protein observed through time-resolved wide-angle scattering</a>	<b>Kevin POUNOT</b>
11:10 - 11:30	<a href="#">Myosin A Inhibition in Malaria: Informing the Next Generation of Antimalarial Drugs</a>	<b>Dihia MOUSSAOUI</b>
11:30 - 11:45	<a href="#">Exploiting Serial Crystallography in Structure-based Drug Design using a Genetic Algorithm</a>	<b>Mahmoud RIZK*</b>
11:45 - 12:00	<a href="#">Targeting the sphingolipid biosynthesis pathway of protozoan parasites as drug targets</a>	<b>Davide CAZZOLA*</b>



12:00 - 14:00	<b>Social event: Hike &amp; Picnic (buffet lunch available at CIS)</b>	
14:00 - 16:00	<b>Social event: Free afternoon / Visit of Lanslebourg cheese cooperative</b>	
16:00 - 17:30	<b>Session 5 SOFT MATTER: ENGINEERING NEW FRONTIERS Chair: Manfred BURGHAMMER</b>	
16:00 - 16:25	<a href="#">Probing the pathways of self-assembly processes in soft matter systems using time-resolved SAXS</a>	<b>Lauren MATTHEWS</b>
16:25 - 16:45	Hierarchical structure of cellulose microfibrils for regenerated cellulose fiber	<b>Jiliang LIU</b>
16:45 - 17:00	<a href="#">Dynamics of supported Pd nanoparticles in liquid phase catalysts</a>	<b>Daniele BONAVIA*</b>
17:00 - 17:15	<a href="#">Thin films of polymer-surfactant complexes: nanostructural evolution in response to humidity</a>	<b>Egor BERSENEV*</b>
17:15 - 17:30	<a href="#">Energy Dispersive Laue Diffraction (EDLD) on teeth enamel</a>	<b>Charbel SAKR*</b>
17:30 - 18:00	<b>Coffee Break</b>	
18:00 - 19:00	<b>Session 6 DATA ANALYSIS AND METHODS DEVELOPMENT Chair: Carsten DETLEFS</b>	
18:00 - 18:30	Big and open data, high performance computing - data science outlook at ESRF	<b>Vincent FAVRE-NICOLIN</b>
18:30 - 18:45	<a href="#">Synchrotron-based X-ray Fluorescence Ghost Imaging</a>	<b>Mathieu MANNI*</b>
18:45 - 19:00	<a href="#">Neural networks for rapid phase quantification of Cultural Heritage X-ray powder diffraction data</a>	<b>Victor POLINE*</b>
19:30 - 20:00	<b>Social event: Aperitif</b>	
20:00 - 22:00	<b>Social event: Conference dinner</b>	



Wednesday 18 October 2023		
08:30 - 10:00	<b>Session 7</b> <b>X-RAY MICROSCOPY AND IMAGING FOR MATERIALS EXPLORATION</b> <b>Chair: Julie VILLANOVA</b>	
08:30 - 08:55	<a href="#">Dark Field X-ray Microscopy: A New Way of 4D Mapping of Strain and Orientation of Embedded Crystalline Structures</a>	Can YILDIRIM
08:55 - 09:15	<a href="#">A year of palaeontology on BM18</a>	Vincent FERNANDEZ
09:15 - 09:30	<a href="#">Lead(II) Formate: from Historical to Model Paints</a>	Ida FAZLIC*
09:30 - 09:45	<a href="#">3D Mapping of Orientation Variations in Weakly Deformed Aluminium</a>	Albert ZELENKA*
09:45 - 10:00	<a href="#">Characterization of plastic strain localization in polycrystalline materials by Diffraction Contrast Tomography and Topo-tomography</a>	Zheheng LIU*
10:00 - 10:30	Coffee Break	
10:30 - 11:50	<b>Session 8</b> <b>NEW INSIGHTS INTO LI-ION BATTERY MATERIALS</b> <b>Chair: Jon WRIGHT</b>	
10:30 - 10:55	<a href="#">Demystifying mysterious time and space evolution in state-of-the art graphite-silicon composite battery electrodes</a>	Marta MIROLO
10:55 - 11:20	<a href="#">Recent advances on microscale characterization of energy dense batteries</a>	Partha PAUL
11:20 - 11:35	<a href="#">Exploring Thermal Runaway Propagation in Li-ion Batteries: Impact of Cell Chemistry and Electrical Connections through High-Speed X-ray Imaging and Thermal Analysis</a>	Matilda FRANSSON*
11:35 - 11:50	<a href="#">Mechanistic investigation of Zr-doping in NMC811 cathode material for Li-ion batteries</a>	Mattia COLALONGO*
11:50 - 12:05	Best poster and best student talk awards	
12:05 - 12:30	Discussion and Conclusions	
12:45 - 13:45	Lunch at CIS	

\*Eligible for best talk award

