

Program - JSMC8-2025

09:00	Welcome
09:15	Stefania CACOVICH IPVF <i>Multimodal Photoluminescence Imaging in Photovoltaic Material Analysis</i>
09:55	Session A: Short Presentations (4 minute presentation)
10:30	Coffee Break
11:00	Guillaume ZANTE DRF, IRAMIS, NIMBE, LICSEN <i>AI-assisted sorting of electronic waste enabling improved chemical recycling of critical and precious metals</i>
11:40	Session B: Short Presentations (4 minute presentation)
12:15	Lunch Break
13:55	Laurence RAMOS University Montpellier, L2C <i>Catching Enzymes in Action</i>
14:35	Session C: Short Presentations (4 minute presentation)
15:05	Coffee Break
15:30	Philippe THOMAS CNRS - IPP <i>A two-parameter nucleation model for the condensation of Lennard-Jones particles</i>
16:10	Session D: Short Presentations (4 minute presentation)

Session A: Short Presentations (4 minute presentation)

- Bastien GIRAULT
CEA, SPEC, SPHYNX
Elaboration and characterization of glasses containing chromium-bearing minerals
- Jasurbek GULOMOV
DES, ISAS, DRMP, S2CM, SRMP
Local disorder in bulk and surfaces of inorganic halide perovskites for photovoltaic applications
- Mary WILLIAMS
UMONS
Viscous adhesion with soft interfaces
- Esther María ZAMORA SÁNCHEZ
Laboratoire Jean Perrin
Maze-solving with density-driven swarms
- Marceau HENOT
CEA, SPEC, SPHYNX
Molecular dynamics insights into the Debye process of a mono-alcohol
- Herve HENRY
CNRS, Laboratoire PMC
Modeling of cracks propagating in heterogeneous materials
- Jules TRUBERT
CEA, SPEC, SPHYNX
How can the structural heterogeneity of differently quenched glasses be explored?

Session B: Short Presentations (4 minute presentation)

- David CARRIERE
CEA, NIMBE, LIONS
Formation of a dense liquid precursor in mineral crystallization: spinodal decomposition evidenced by sub-millisecond microfluidics coupled to time-resolved in situ SAXS
- Yilin YE Ecole Polytechnique
First-passage times to a fractal boundary: Local persistence exponent and its log-periodic oscillations
- Elina GILBERT
CEA, SPEC, SPHYNX
Ultrastiff lightweight isotropic metamaterials
- Daniel BONAMY
CEA, SPEC, SPHYNX
Crack growth in microtruss-based mechanical metamaterials of random architecture
- Mikhail SEMEYKIN
ENS, LPENS
Universal amplitude of the critical force at depinning
- Priscille FAUVARQUE
CEA, SPEC, SPHYNX
Influence of crystallization of oxide glasses on their stress corrosion cracking behavior
- Vincent FLEURY
Université de Paris-Cité/CNRS
L'origine de l'homme et le paradoxe de l'ajustement fin (fine tuning)

Session C: Short Presentations (4 minute presentation)

- Arach GOLDAR
I2BC
DNA repaire: cooperative or exclusive?
- Sumeja BUREKOVIC
CEA, SPEC, SPHYNX
Active phase separation: a systematic coarse-graining approach
- Edgar ZEMBRA
Polytechnique
Numerical study of fracture propagation using the phase field method - Influence of material heterogeneities and anisotropies
- Christophe POULARD
Université Paris-Saclay, LPS
Rheological response of soft Solid/Liquid Composites
- Tristan CERDIN
Université Paris-Saclay, FAST
Number fluctuations distinguish different self-propelling and reorientation dynamics
- Mathis PLAPP
CNRS/Ecole Polytechnique
Multi-physics modeling of microstructure evolution during phase-change memory operations

Session D: Short Presentations (4 minute presentation)

- Herve HENRY
CNRS, Laboratoire PMC
Modeling of cracks propagating in heterogeneous materials
- Nitin GUPTA
CEA, SPEC, SPHYNX
Fast Crack Propagation in Disordered Materials
- Armand RYKNER
CEA, SPEC, SPHYNX
Glass relaxation from out-of-equilibrium states
- Léo-Paul BARBIER
ESPCI Paris
Swimming droplets facing gravity
- Sebastien AUMAITRE
CEA, SPEC, SPHYNX
Dissipated Power measurement in turbulent flows
- Abderraouf BOUNJAD
Physique de la matière condensée
Modeling of membrane formation induced by diffusive transport
- Marouane EL OMARI
CEA, DES, ISAS, DRMP, S2CM, LM2T
Atomistic Modeling of Alteration Phenomena at the Surface of Silicate Glasses