

EMIR&A user's meeting 2025



Réseau national d'accélérateurs
pour l'irradiation et l'analyse des
molécules et matériaux

Report of Contributions

Contribution ID: 1

Type: **not specified**

Welcome Coffee

Monday 8 December 2025 10:00 (30 minutes)

Contribution ID: 2

Type: **not specified**

Opening

Monday 8 December 2025 10:30 (15 minutes)

Authors: PIQUEMAL, Fabrice (LP2iB); MONTCOFFRE, Nathalie (IP2i); SORIEUL, Stéphanie

Presenters: PIQUEMAL, Fabrice (LP2iB); MONTCOFFRE, Nathalie (IP2i); SORIEUL, Stéphanie

Contribution ID: 3

Type: **not specified**

(Invited) Light ion beams applied to life sciences @ LP2I

Monday 8 December 2025 10:45 (30 minutes)

Author: BARBERET, Philippe (LP2iB)

Presenter: BARBERET, Philippe (LP2iB)

Session Classification: IBA

Contribution ID: 5

Type: **not specified**

IBA

Contribution ID: 6

Type: **not specified**

Ion-beam analysis in R&D for low-noise thin-film coatings

Monday 8 December 2025 11:15 (25 minutes)

Author: GRANATA, Massimo (LMA - CNRS)

Presenter: GRANATA, Massimo (LMA - CNRS)

Session Classification: IBA

Contribution ID: 7

Type: **not specified**

Lunch

Contribution ID: 8

Type: **not specified**

Exploring the effects of electron and ion irradiation on silica thin films : insights into structural modifications

Monday 8 December 2025 14:00 (25 minutes)

Presenter: INOUBLI, Farah (LSI)

Session Classification: Thin Film Irradiation

Contribution ID: 9

Type: **not specified**

Behaviour of thin films (SiO₂, TiO₂, C) under ion irradiation

Monday 8 December 2025 14:25 (25 minutes)

Presenter: DESCHANELS, Xavier (ICSM)

Session Classification: Thin Film Irradiation

Contribution ID: **10**

Type: **not specified**

Irradiation response during the early stages of alpha radiation damage in mesoporous nanocrystalline ceria films.

Monday 8 December 2025 14:50 (25 minutes)

Presenter: BALDINOZZI, Gianguido (Université Paris-Saclay)

Session Classification: Thin Film Irradiation

Contribution ID: **11**

Type: **not specified**

Industrials

Monday 8 December 2025 15:15 (20 minutes)

Contribution ID: **12**

Type: **not specified**

Scientific committee summary

Monday 8 December 2025 15:35 (25 minutes)

Author: SCHÄUBLIN, Robin (ETH Zurich)

Presenter: SCHÄUBLIN, Robin (ETH Zurich)

Contribution ID: **13**

Type: **not specified**

Dinner

Monday 8 December 2025 20:00 (2 hours)

Restaurant “Café du port”.
1-2 Quai Deschamps,Bordeaux
Tram station : Stalingrad (Line A)

Contribution ID: 14

Type: **not specified**

(Invited) Development of mitigation strategies for a safer IBA of fragile heritage artefacts

Tuesday 9 December 2025 11:05 (30 minutes)

Presenter: CALLIGARO, Thomas (C2RMF)

Session Classification: IBA & Instrumentation

Contribution ID: 16

Type: **not specified**

MATRIX : a GaN diode array for proton monitoring and imaging

Tuesday 9 December 2025 11:35 (25 minutes)

Presenter: Dr HIGUERET, stephane (IPHC)

Session Classification: IBA & Instrumentation

Contribution ID: 17

Type: **not specified**

News from RASTA

Tuesday 9 December 2025 10:15 (20 minutes)

Presenter: BRIAND, Emrick (INSP)

Contribution ID: **18**

Type: **not specified**

Irradiation and fusion materials: Opportunities for experiments and simulations

Tuesday 9 December 2025 14:00 (25 minutes)

Presenter: SCHÄUBLIN, Robin (ETH Zürich)

Session Classification: Material Irradiation

Contribution ID: **19**

Type: **not specified**

Amorphization under 2.5 MeV Electron Irradiation of Lamellar Hydrogen Phosphates: Comparative Study of Brushite and Newberyite

Tuesday 9 December 2025 14:25 (25 minutes)

Presenter: CASTELO PEDROTTI, Julia (LSI)

Session Classification: Material Irradiation

Contribution ID: 20

Type: **not specified**

Investigation of Crater Formation Induced by Gold Cluster Ions: Experimental and Theoretical Approaches

Tuesday 9 December 2025 14:50 (25 minutes)

Presenter: GOUASMIA BOUSSAHOUL, Sabrina (Laboratory for Ion Beam Interactions)

Session Classification: Material Irradiation

Contribution ID: 21

Type: **not specified**

Nitrogen doping of 2D transition metal carbides (MXenes) multilayers by in situ ion implantation in the TEM

Tuesday 9 December 2025 09:00 (25 minutes)

Presenter: DAVID, Marie-Laure (Institut pPrime)

Session Classification: Material Properties

Contribution ID: 22

Type: **not specified**

Unconventional Superconductivity in Infinite-Layer Nickelates Probed by Controlled Introduction of Disorder

Tuesday 9 December 2025 09:25 (25 minutes)

Presenter: RANNA, Abhishek (Max Planck Institute for Chemical Physics of Solids)

Session Classification: Material Properties

Contribution ID: 23

Type: **not specified**

Direct time-resolved study of the interfacial reaction mechanism of metal-based catalysts in the CO₂ conversion

Tuesday 9 December 2025 09:50 (25 minutes)

Presenter: JIANG, Zhiwen (Institut de Chimie Physique)

Session Classification: Material Properties

Contribution ID: 25

Type: **not specified**

Final discussion

Tuesday 9 December 2025 15:15 (20 minutes)

Presenter: MONTCOFFRE, Nathalie (IP2i)