



EA 2527 3 teacher-researchers, 1 engineer and 3 Phd Student

light sources, particularly spin-, time-, and angle-resolved photoemission spectroscopy. The LPMS is

KEYWORDS SCIENCE

- Condensed Matter **Physics**
- Surface Science
- Spectroscopy
- **Quantum Materials**
- **Ultrafast dynamics** of electron and electron spins
- **KEYWORDS APPLICATIONS**
- Material Characterization • Spintronics
- Nanotechnology
- MagneticStorage • Electronic Devices



APPLICATIONS AND INDUSTRIAL SECTORS

Transitor from 2D Materials



iramis

CNIS

بالمراد

LPMS-DICO/CEA Laboratory of Physics of Materials and Surfaces

Dynamics and Interactions in COndensed matter

KNOW-HOW · SKILLS · EXPERTISE · SPECIFIC FEATURES

Surface Physics through Spin-Resolved Photoemission: Understanding electron dynamics and spinpolarised electron quantum states for materialdesign.



Typical XPSpectra



Electron Dynamics by Pumpprobe experiments

LPMS-DICO



EQUIPMENT FOR SPECTROSCOPY

PUBLICATIONS:

UNIVERSITE PARIS-SACLAY

- source using OAM beams. Optica, 2024, 11, pp.403-410. <<u>10.1364/OPTICA.548069</u>> Fatima Alarab, Karol Hricovini, Berengar Leikert, Christine Richter, Thorsten Schmitt, et al.. Nature of the metallic and in-gap states in Ni-doped SrTiO3. APL Materials, 2024, 12, pp.011118. <u><10.1063/5.0183140</u>2. <u><cea-04453308</u>2Laser Systems for ultrafast and high

For additional publications, please scan here.

