

OSEPI II

Workshop on oxide and semiconductor epitaxy

Monday November 2nd – Friday November 6th 2026

La Villa Clythia, Frejus (Var), France

Session I : Growth mechanisms

Bruno Dlubak (Laboratoire Albert Fert Palaiseau)

Integration of 2D semiconductors for spintronics

Mónica Burriel (INMA, CSIC/Universidad de Zaragoza)

Chemical Vapour Deposition of Epitaxial Complex Oxides: Fundamentals, Growth and Applications

Session II : Structural and functional characterization

Alexandre Arnoult (LAAS Toulouse)

Some selected in situ characterization tools for MBE growth and their complementarity

Christophe Gatel (CEMES Toulouse)

Electric field mapping at the nanoscale in dielectric and ferroelectric materials

Session III : Properties engineering using epitaxy

Moïra Hocevar (Institut Néel Grenoble)

Development of superconductor-semiconductor nanostructures for superconducting quantum devices

Thomas Maroutian (C2N Saclay)

Ferroelectric oxide membranes, from patterning to heterogeneous integration

Session IV : Hybridization

Amaury Delamarre (C2N Saclay)

III-V epitaxy on patterned graphene for transferable membranes

Javier Villegas (Laboratoire Albert Fert Palaiseau)

Optical modulation of electronic ground states in complex-oxide films and heterostructures

Session V : From properties to devices

Amélie Dussaigne (CEA LETI, Grenoble)

The InGaN alloy for Red emitting micro-LEDs

Ausrine Bartasyte (C2N/Femto ST)

Advances and challenges in growth of LiNbO₃-LiTaO₃ thin films for acoustic and photonic devices

+ plenary contributions for a global overview of the thematic

Jean-Michel Gérard (PHELIQS, CEA/UGA, Grenoble)

1985-2001 : the (slow) rise of self-assembled epitaxial quantum dots

Gilles Patriarche (C2N Saclay)

Structural and chemical study by TEM/STEM of III-V and II-VI semiconductor quantum dots

Odile Stéphan (LPS/Université Paris Saclay)

Recent developments in STEM spectroscopy for probing electronic and optical properties of semiconducting materials and nanostructures

Mark Hopkinson (University of Sheffield)

Site-controlled MBE growth of quantum dots

Morgan Trassin (ETH Zürich)

Engineering materials at the atomic scale for energy efficient application



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