OSEPI
Workshop on oxide and semiconductor epitaxy

Monday May 13th – Friday May 17th 2024

La Villa Clythia, Frejus (Var), France

GDR MATEPI

Session I : **Growth mechanisms**

Roman Engel-Herbert (Paul Drude Institute Berlin)
Title to be confirmed

Jean-Christophe Harmand (C2N Saclay)
Some mechanisms of III-V nanowire growth

Session II **: Structural and functional characterization**

Laura Bocher (LPS Orsay)
How will electron spectromicroscopy reveal "all the secrets" of your oxides down to the atomic scale? ... at least their structural, chemical, and electronic features !

Julien Barjon (GEMaC Versailles)
Title to be confirmed

Session III : **Properties engineering using epitaxy**

Daniele Preziosi (IPCMS Strasbourg)
Stabilization of nickelate infinite-layer phase: from 'soft-chemistry' to 'soft-physics'

Fabrice Semond (CRHEA Valbonne)
Niobium nitride, a newcomer to the III-nitride semiconductor family: Epitaxy of metal/semiconductor, semiconductor/superconductor hybrid heterostructures

Session IV : **Hybridization**

Valérie Demange (ISCR Rennes)
Oxide nanosheets as seed layers for growth of complex oxides

Charles Cornet (FOTON Rennes)
III-V/Si epitaxial growth and antiphase domains: a matter of symmetry

Session V : **Physical properties and applications**

Vincent Garcia (CNRS-Thales Palaiseau)
Scanning probe microscopy for functional oxide thin films

Maria Tchernycheva (C2N Saclay)
Nitride nanowire light emitting diodes: from single wire properties to device applications

Session VI : **Microfabrication, devices**

Guillaume Agnus (C2N Saclay)
Oxide thin films processing: some examples on how to take advantage of perovskite properties into devices

Laurent Cerutti (IES Montpellier)
Mid-IR lasers grown on highly mismatched substrates

+ 3 plenary contributions for a global overview of the thematic

Clément Merckling (IMEC Belgium)
Title to be confirmed

Judith Driscoll (Cambridge university)
The potential for enhanced functional properties offered by vertically aligned nano composite films

Eric Tournié (IES Montpellier)
MBE : some challenges and evolution

Information, registration : https://osepi.sciencesconf.org/