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NND04 : Semiconductor materials and devices for telecommunications

Organizers: Hélène Carrere (LPCNO, Toulouse), Arnaud Wilk (III-V Lab, Palaiseau)

Invited Speakers: Yoann Léger (FOTON, Rennes) - Crystalline textures of gallium phosphide: from epitaxial growth to nonlinear photonics

Sponsors: GDR Matepi

Content:

This mini-symposium aims to bring together researchers, engineers, and industry partners working on semiconductor materials and devices for optical telecommunications. The scope covers a broad range of semiconductor material systems, III–V compound semiconductors and nanostructures, silicon and silicon photonics platforms, as well as functional complex oxides and advanced engineered heterostructures. These material systems are at the heart of key optoelectronic functionalities required for modern and future optical communication networks.

The mini-symposium will address both fundamental and applied aspects, from material growth, epitaxy, nanofabrication, and characterization, to device design, modeling, and system-level integration. Topics of interest include for example, lasers, optical modulators, amplifiers, photodetectors, nonlinear optical devices, integrated photonic circuits, …

This symposium is supported by the GDR Matepi, which aims to foster the scientific activities of the French community working on epitaxial growth, as well as on the properties of epitaxial systems and their applications.

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