



Edificio 8G - 4ª Planta



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Towards a silicon-compatible laser and amplifier

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Silicon-based photonics is a technology that allows monolithic integration of devices that guide, modulate, mix and emit light, at very low cost per device due to the well-developed silicon technology for electronics, and makes the combination of both platforms possible. In this seminar, I will show the latest results obtained in the framework of project LANCER, an EU project that has the objective of fabricating a laser and an amplifier in the 1.5 micron telecom window in silica waveguides doped with Er ions and Si nanoclusters. Some results of silicon-compatible Er-doped tantalum pentoxide waveguides will be shown too.

Silicon photonics