



PhD scholarship available – Santiago Grisolia Program

**DEVELOPMENT OF AN OPTICAL SYSTEM FOR THE GENERATION OF OPTICAL VORTEX BEAMS
WITH TUNABLE SPECTRAL CONTROL**

The goal of the project is to develop a programmable and versatile optical system that acts as a source of optical vortex beams with tunable spectral control. The system will combine a supercontinuum light source with a spectral control unit, and a SLM based system to generate the optical vortex content. The system should be capable to produce laser beams with tunable spectral band and programmable orbital angular momentum and higher order vectorial beams.

The position is available at the **Optics Laboratory** at University Miguel Hernández, at the city of Elche (Alicante), Spain.

Scholarship:

Three years contract, €1,200 monthly (before taxes), additional €1,600 for covering travelling costs and insurance.

Requisites for candidates:

- a) A degree from a non-Spanish university, obtained after 1 January 2012.
- b) Spanish and/or English language skills.
- c) Not being in possession of another PhD.

Those interested please contact before **March 6th 2015**.

Contact

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Optics Laboratory at UMH

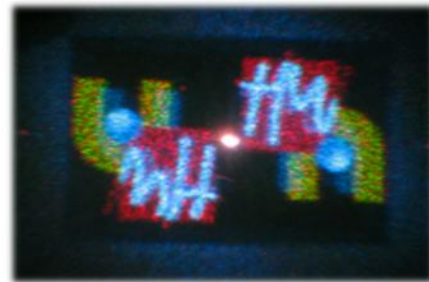
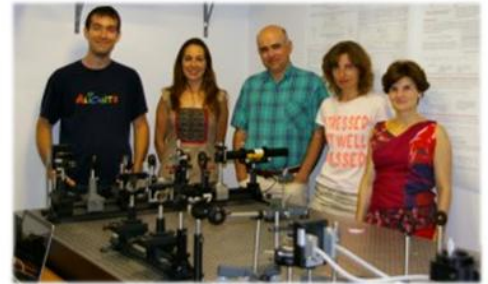
<http://tecnopto.edu.umh.es>

1. Modeling and Characterization of LC-SLMs

2. Diffraction Optics

3. Polarization Elements

4. Spectral Control



City of Elche / Elx



Elche (Alicante)
University Miguel Hernandez

