



# SEMINARS

*Innovating Imaging*

*Tuesday 27th January 2015*

**Universidad Santiago de Compostela - CIQUS**  
C/ Jenaro de la Fuente S/N, 15782 Santiago de Compostela

**16.00h Tunable Diode & Ultrafast Fiber Lasers: Next Generation**  
**Dr. Jan Schaefer (Toptica Photonics, Germany)**

## Abstract

Duration: 45 min

Tunable single-frequency diode lasers consist of a laser diode and a frequency selective element like a grating, which controls the emission frequency. TOPTICA offers diode laser systems with an external grating (ECDL) as well as systems with a frequency-selective element integrated within the semiconductor structure itself (DFB diodes). These systems are available for individual wavelengths between 369 nm and 3500 nm, and provide tunable, narrow-linewidth emission.

Ultrafast technology has seen an unpredictable success ever since it was introduced. Many promising applications have emerged benefiting mainly of the high peak power and ultra short pulse duration which give rise to nonlinear effects and open new paths in engineering and scientific research.



**Organized by:**

**Collaborate:**



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