

Interdisciplinary group for optical computing (GICO)



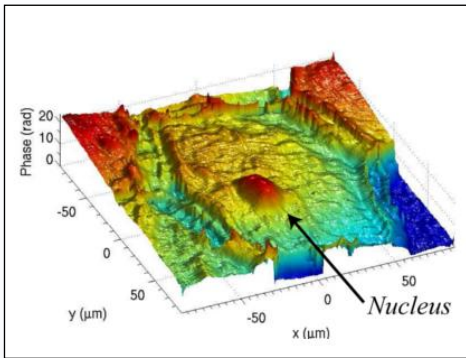
Universidad
Complutense
Madrid

AREAS OF EXPERTISE

TECHNOLOGY TRANSFER

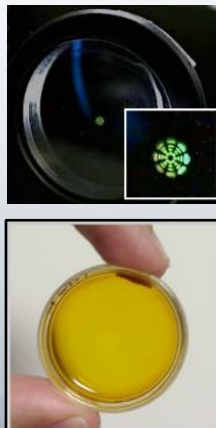
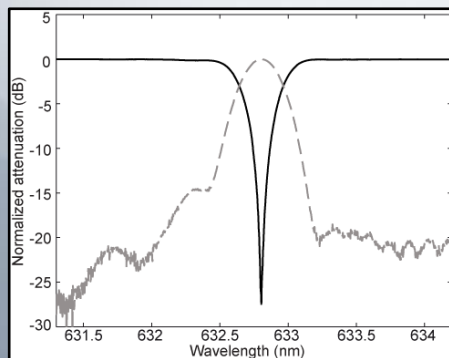
Systems for imaging and characterization of laser beams

- Fast and accurate phase retrieval of coherent beams
- Complete analysis of partially coherent beams
- Efficient and versatile real-time analysis and imaging techniques



Holographic optical elements

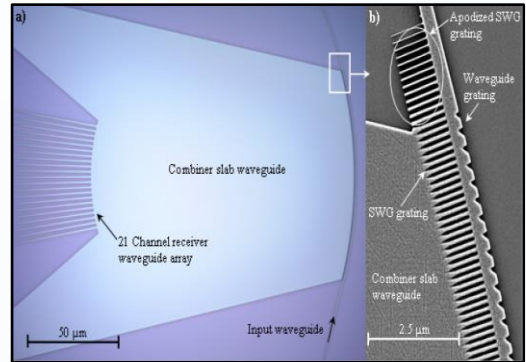
- Highly selective notch filters
- Holographic beam shapers
- Implemented in a holographic material with high sensitivity and optical quality



CONSULTING

Silicon photonics

- Broad experience in development of polarization rotators, demultiplexers and spectrometers.



Light beam shaping

- Digital holography techniques
- Space-time and spectral shaping for femtosecond pulses
- Spatial beam shaping

Optical systems design

- Programmable setups for holographic optical tweezers, imaging and laser beam shaping

