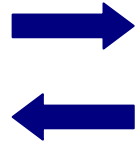




LiNbO₃ Research Activity on Lithium Niobate at INOA

Nano/Micro Engineering

- Interferometric Lithography
- Electric Poling
- Etching



Characterization by interferometric methods

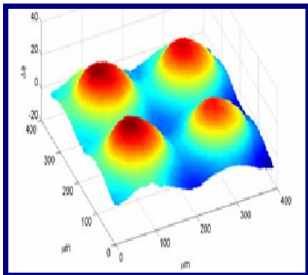
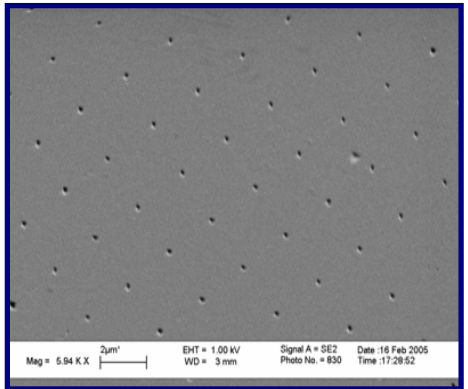
- Material properties
- Monitoring of engineering processes
- Photorefractive properties

▶ Photonic crystals

- Nonlinear Optics: new laser sources
- Bragg structures
- Devices for telecom & sensing

▶ Functionalized substrates

- Trapping particlese array (Litography, Multiple Imaging)
- Array of liquid microlenses with variable focal length
- Wettability patterning
- Microstructure in biology (tissue growth, motility of cells, etc.)



▶ Optical Devices

- Tunable Phase array (Litography, Trapping, Multiple Imaging)
- Optical switches and scanning elements
- Wavefront sensing and correcting element (PDI)
- Super-resolution in optical coherent microscopy



Research Activity on 3D Imaging and Quantitative Phase Microscopy at INOA

