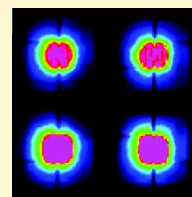
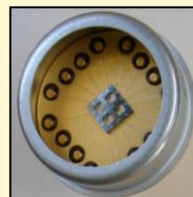


Staff: 183 researchers, professors, lecturers, engineers and technicians
105 PhD students, post-docs and temporary staff

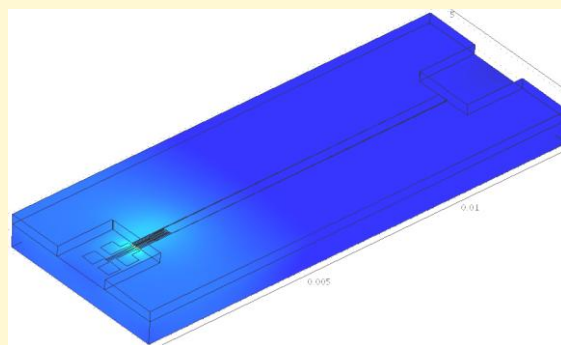
Research fields: materials & nanosciences, micro/nano electronics, microsystems, magnetism & spintronics, optoelectronics, related technologies

Research topics in Micro and NanoSystems

- Materials for MEMS and NEMS
- Stresses in micro/nano - objects
- Molecular self-assembling
- Micro and nanosensors - detection techniques
- Magnetism and spintronics
- Flexible electronics
- Silicon and organic PV cells
- Test devices
- Interface electronics & integrated circuits



Gas multisensor and IR picture of active layers



Microfluidic device gas sensor

Technology

- 175 m² clean rooms class 1000 & 100
- Sputtering, Spin coating
- Etching: KOH, TMAH, RIE, DRIE
- Technology on flexible substrates
- Reactive magnetron sputtering
- Metallic oxides depositions, magnetic films,
- Silicides studies, Advanced Materials Memories
- Electrical test benches

Design, simulation & characterization tools

- Cadence, ANSYS, Coventor, VHDL, HFSS
- X-ray diffraction, AES, Microraman
- Microscopies: TEM, SEM, AFM & MFM, STM
- TEM Titan, Tomographic atom probe
- Profilometers
- Stress (curvature)
- UV-Vis and IR Spectroscopic ellipsometry, FTIR
- Gas sensors characterization
- LF, HF and noise electrical measurements



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