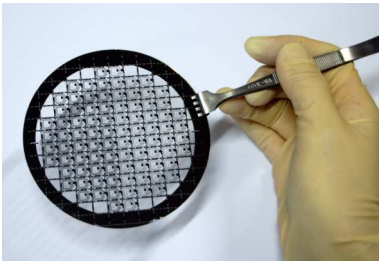


Development of mechanical microsystems and microtechnical production processes



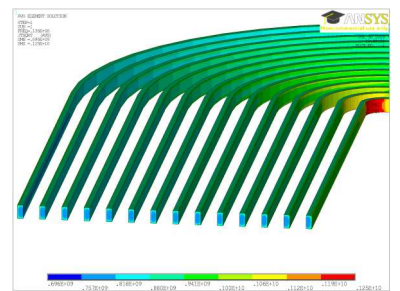
Areas of research

- Development of microsystems
- Development of processes for microtechnology manufacturing
- R&D for industrial applications
- Manufacture of prototypes and feasibility studies
- Analysis of materials using SEM and EDX



Cleanroom ISO class 5

- UV and DUV lithography
- Dry etching of Si, SiO₂ and glasses
- Micro-electroplating with Cu and Ni
- Laser micromachining with excimer, ultra short pulse and CO₂ laser
- Sputtering and wet etching
- Thermal Oxidation
- Preparation of samples



Focus

- Simulation of electron beam lithography
- Simulation of contact and proximity printing lithography
- Patterning of surfaces through laser irradiation
- Fabrication of moulds consisting of Ni, Si, Cu
- Development of couplers for optical fibres
- Lithography in thick resist (up to 600 μm SU8)



Contact

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