

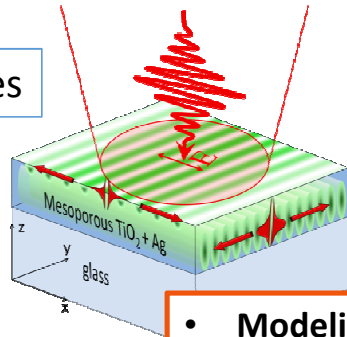
Lab Hubert Curien CNRS 5516



- Laboratoire Hubert Curien UMR CNRS 5516, Univ. Saint Etienne (academic partner)
- Micro and Nanostructuring Team (Grating project),
- Yves Jourlin, Thomas Kämpfe
- yves.jourlin@univ-st-etienne.fr
- thomas.kampfe@univ-st-etienne.fr

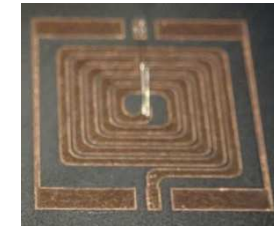
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Nanoparticles



EQUIPE
«MICRO-NANO STRUCTURATION»

YVES JOURLIN



Component: inductance

HF/RF
Complex surfaces
and components

- **Modeling** : electromagnetic simulation, device design and optimization, multiphysics approaches...
- **Functional materials** : sol-gel, SG+NP, magneto-optics, luminophores...
- **Microstructuring tools and technology** : pulsed laser manufacturing, laser lithography, etching...
- **Characterization** : optical diffraction, AFM/SEM/FIB, ellipsometry, materials analysis...
- **Applications** : sensors, solar energy, photocatalysis, security, coloring, lighting...



Gratings

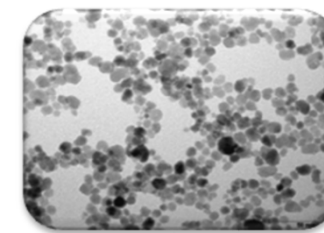
Nathalie
Destouches
(PU)

Yves
Jourlin
(PU)

Damien
Jamon (IR)

Bernard
Bayard
(MC)

~35 people
(25 permanent staff)



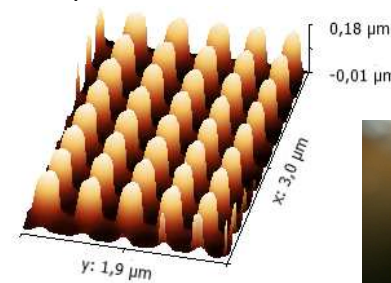
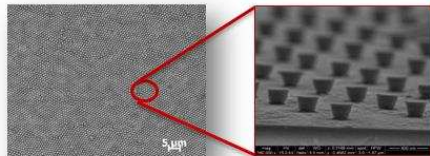
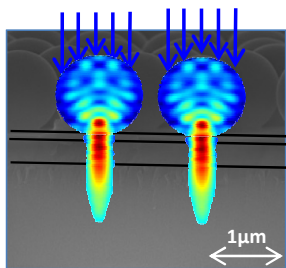
NPs Magnétiques (~10 nm)

Magneto
Optics & NP
Magnetics

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- Expertise : micro and nanostructuring, materials (functionalised materials), diffractive optics (light trapping, plasmonics, sensors...)



- Previous and current participations in Eu projects in this field

- Projet **EU GREAT** (Grating Reflector Enabled laser Applications and Training), Type: H2020-MSCA-ITN-2018, n°813159, (2019-2023), Partenaires: USTUTT (Coordinateur), LabHC (Responsable WP), IF, ORC, UEF, AMO, DILAS, ALPHA, UB
- Projet **EU ACTPHAST 4R** (ACceleraTing PHotonics Deployment viA one SToP shop Advanced Technology Access for Researchers), H2020-ICT-2018-2 ICT-04-2018, n°825051 (2018-2022), and **EU ACTPHAST 4.0** (ACceleraTing PHotonics innovAtion for SME's: a one SToP-shop-incubator), H2020-ICT-2017-1, n°779472 (2017-2021)
- **ANR projects and industrial projects** (laser, sensors, energy...)

