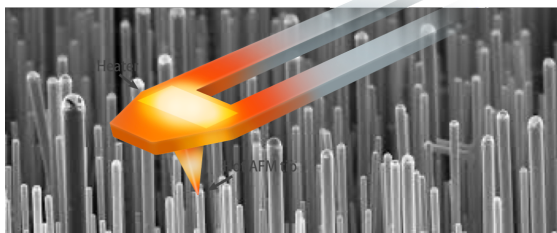


Laboratoire Ondes et Matière d'Aquitaine - LOMA

Stefan Dilhaire

- Team Photonics and Materials
- 5 Permanent researchers
- Near Field (SThM) and Thermoreflectance



AXE

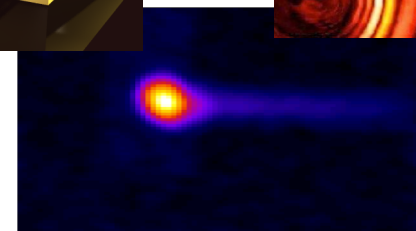
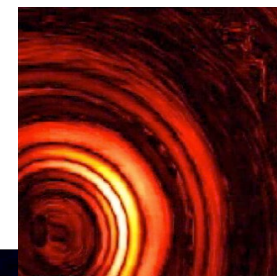
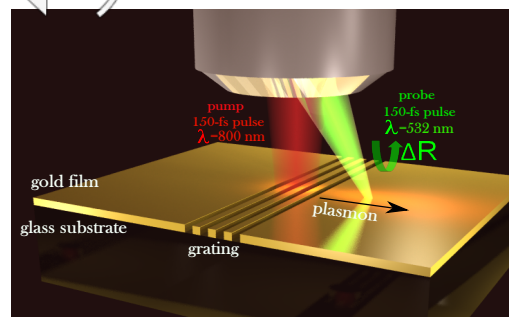
Élaboration

Mesures de propriétés

Mesures de performances de dispositif

Simulations/Théorie

- CNRS 04 CNU 28-30-63
- Axe : Mesure de Propriétés



N A M e

GDR Nanomaterials for Energy Applications

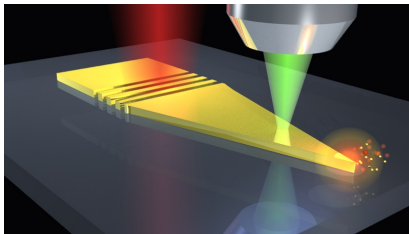
ELABORATION
MEASUREMENTS & METROLOGY
SIMULATIONS & THEORY
APPLICATIONS

LOMA
UMR5798
Laboratoire Ondes et Matière d'Aquitaine



Scientific expertise, overview, major themes in relation to the GDR

- Back bone of the labs regarding chemistry or physics (main research subject)
 - **Ultrafast and nanoscale energy transport**
- Which heat carriers ?
 - **Plasmons, Electrons, Phonons**



- Type of energy conversion
 - **Thermoelectrics, Photovoltaïcs**
- What kind of applications are targeted ?
 - **Récupération**

Porteurs d'énergie
Phonon
Electron
Type de conversion d'énergie
Thermoélectrique
Photovoltaïque
Thermophotovoltaïque
Piézoélectrique
Application relative à l'énergie ou autre
Récupération
Stockage
Capteurs
Gestion thermique des nanodispositifs
Dispositifs flexibles
Performances/fiabilité des nanodispositifs
Alimentation/Nano-robotique
Autre ?

Technical or technological expertise in relation to the GDR issues

- What kind of materials/dimensions
 - **nm up to mm**
- Bottom-up or top-down ? **both**
- What kind of elaboration techniques **n/a**
- What kind of characterization techniques are mastered by the lab/group/team **Optical and near field**
- Special instruments or methods (give few highlights)
- Codes/numerical tools/modelling

Caractéristiques physicochimiques
Caractérisation microstructurale
Electrique
Thermique
Mécanique
Magnétique
Autre ?
Type et taille caractéristiques des nanomatériaux
Élaboration
Caractérisation d'objets
Simulations

Looking for collaborations ?? **indeed**