PLATFORM

LOS

Optics, Lasers & Spectroscopies

TEAM

Prof. Muriel Lepère **Spokesperson**

Prof. Francesca Cecchet **Raman expert**

Raman Confocal Microscope LabRAM Soleil (HORIBA)

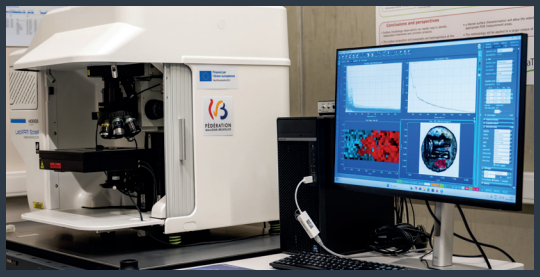
The Raman Confocal Microscope allows chemical analysis of samples, both in single point mode or 2D and 3D spectral imaging mode.

For information on prices, please contact
francesca.cecchet@unamur.be

UNIVERSITÉ DE NAMUR

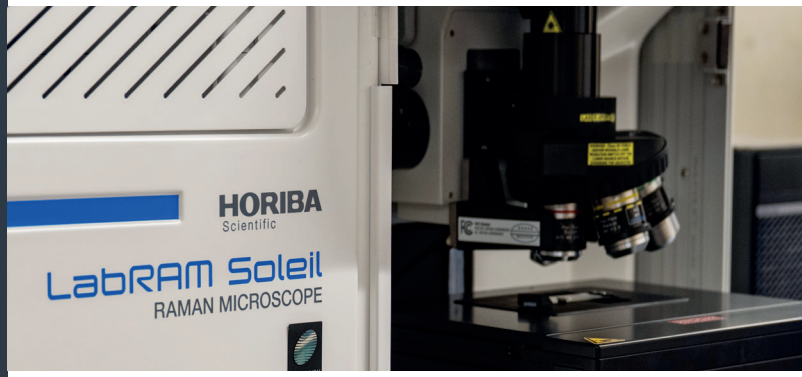
Raman Confocal Microscope

LOS provides unique expertise in the study of the rotational, vibrational, electronic, and scattering properties of matter as probed in linear and nonlinear optical processes.
The new Raman microscope of LOS allows fast, non-destructive chemical analysis of solids, thin films, powders, liquids, and gases. It can be applied to numerous markets such as energy, environment, polymers, life sciences, pharmaceuticals, nanomaterials, semiconductors, food, environment, paints, forensics, geology, or archeometry.



Raman analysis

- Chemical composition
- Molecular interactions
- Structural properties
- Phase information
- Defect identification
- Impurities and contaminants
- Sample heterogeneity
- Non-destructive
- Works on liquids, powders, thin films, solid-state materials
- Transparent, absorbing or reflecting materials
- No sample preparation
- Micrometer resolution
- Small and large area analysis



Microscope specifications

- Raman and Photoluminescence analysis
- 532 nm and 785 nm laser sources
- Tunable laser power
- 5 objectives (5x, 10x, 20x, 50x-long range, 100x)
- Up to 2 cm^{-1} spectral resolution
- Large spectral range (30-4000 cm^{-1})
- Fast imaging modes
- Laser and Raman polarization control