





SEMINAIRE ISMO



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"Exploring the nano-world with bright beams of extreme ultraviolet light"

Bright beams of extreme ultraviolet (EUV) laser light with wavelengths in the range of 10-50 nm, are enabling the implementation of imaging, and patterning tools that can probe the nano-world on a table top.

In this talk I will review work by our group on the demonstration of imaging systems that have reached spatial resolutions down to 38 nm and can:

- i) image dynamics at the nanoscale using single-shot flash illumination, and
- ii) image surfaces and inspect for defects in EUV Lithograph masks.

I will also describe a novel mass spectrometry microscope that exploits the interaction of extreme ultraviolet laser light and organic materials to map chemical composition in three dimensions with nanoscale resolution.

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Lundi 18 juin 2012 à 11h

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