

Факултет за френско обучение по електроинженерство
Технически университет – София

С Е М И Н А Р

“Design of metallic nanoparticles for advanced optical applications”

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We developed metallic particles of 150 nm of typical size made by electrons beam nanolithography. We have engineered shapes of these metallic nanoparticles which size and symmetry properties permit efficient second harmonic generation, enhanced Raman scattering, etc.

Two kinds of applications will be presented :

- The elaboration of a multipolar framework for nanoparticles optical properties description (theory and Experiments, applications to second harmonic generation...)
- The développement of SERS and SEIRA based sensors for biochemical and chemical species.

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бул. „Климент Охридски“ 8