

INM COLLOQUIUM

“PLASMONIC NANOMATERIALS FOR BIOSENSING AND DIAGNOSTICS”

Prof. Dr. Luis Liz-Marzan

CIC biomaGUNE, San Sebastián, and Ikerbasque, Bilbao, ESP

Thursday, May 16, 2019, 11:00 am

INM, Leibniz-Saal, Campus D2 5

Host: Prof. Dr. Aránzazu del Campo

Nanoplasmonics involves the manipulation of light using materials with significantly smaller sizes than the radiation wavelength. This usually involves nanostructured metals, which very efficiently absorb and scatter light because of their ability to support coherent oscillations of free (conduction) electrons. Therefore, an essential pillar behind the development of nanoplasmonics is the great advance in fabrication methods, which have achieved an exquisite control over the composition and morphology of metal nanoparticles. Colloid chemistry has the advantage of simplicity and large scale production, with the ability to direct not only nanoparticle morphology but also surface properties and subsequent processing via self-assembly. This talk will provide an overview of “colloidal nanoplasmonics” as a mature field to bridge the basic fabrication of nanoplasmonic building blocks, all the way to devices that can be used for real applications in sensing and diagnostics.

Check CV [here](#).

You are invited to have coffee with the speaker 15 minutes before the talk starts.

KONTAKT

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