

CICLO DE SEMINARIOS 2013

“Surface Plasmon Resonance (SPR) Biosensors: Principle, Aspects and Applications”

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Surface Plasmon Resonance (SPR) sensors have matured over the last two decades into very powerful tools for the study of biomolecular interactions, chemical detection and immunoassays. The detection method is based on the use of a beam light to excite the electrons existing at a metal/dielectric interface. Different optical set-up have been developed to create a surface plasmon resonance, one of the most widely used configuration is the one proposed by Kretschmann. This seminar will discuss the physical principal of this configuration and its use in biosensing applications. Furthermore, this talk will focus on the development of new "hybrid" dielectric/metallic SPR surfaces as one of many advancements made in this label-free detection method. In this approach, two examples of these "hybrid" SPR interfaces and their bio-detection application will be elaborated.

Martes 26 de noviembre 2013, 13:00 horas

Sala de Conferencias, Tercer Piso, Departamento de Física
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