

THE PRINCIPLES OF PLASMONIC DETECTION AND DEMONSTRATION OF A NOVEL NANOPARTICLE DETECTOR

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Abstract

The NANODETECTOR project is funded under the EU Framework Programme 7 and is based on the recent finding by one of the project partners of a new application of surface plasmon resonance (SPR). Using these principles the project consortium is seeking to design and build a new, compact device to monitor the safety of nanoparticles and nanomaterials, in both research and industrial settings. The device will be used for the on-line detection and identification of engineered nanoparticles to a high degree of sensitivity. As part of the workshop members of the NANODETECTOR project team will discuss the basic principles on which the machine is based followed by a practical demonstration with the new prototype machine. Finally there will be short presentation, followed by an open discussion, on potential industrial applications of the new NANODETECTOR.

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