



## SUCCESS STORIES

# NANOSPAP: Nanostructures for spintronics and other applications

## PROJECT DESCRIPTION

The project has two main objectives:

1. Development of nanoparticle lift-off lithography as low-cost and flexible technology convenient for industrial production of ordered arrays of different types of nanostructures and its pilot application for fabrication of spintronic nanostructures.
2. Preparation, characterization and studies of novel giant magnetoresistance (GMR) spin valves based on current-induced magnetization switching (CIMS); fabrication and tests of functional demonstration prototypes of new spintronic nanodevices - nanoswitch, nanosensor and ordered array of CIMS nanopillars (nano spin valves) - which can be implemented into industrial production.

## PARTNERS:

**Project coordinator:** Institute of Physics, Slovak Academy of Sciences, **Slovakia**

**Project partners:** National Institute for Laser, Plasma and Radiation Physics (NILPRP), **Romania**

## PROJECT DURATION AND TOTAL PROJECT COST:

Duration: 01/01/2008 – 31/12/2010

Cost: 168.000 Euro

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