



Di, 20.5.2014, 11:15 Uhr
Hörsaal für Physik

“NANOSTRUCTURES AND THEIR APPLICATION IN PLASMONICS AND SPINTRONICS”

Prof. Dr. Tomáš Šíkola

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The lecture will deal with the methods of preparation and characterization of nanostructures finding their applications in plasmonics and spintronics. In particular, the structures providing surface plasmon polaritons, localized surface plasmons and magnetic vortices, and measurement of their functional properties will be addressed. In addition to classical lithographic systems, also special methods based on combination of FIB modification of surfaces and their wet etching, selective growth on substrates pre-patterned by FIB or electron beam, and Ge nanowire growth in SEM for real time monitoring will be discussed.