CHALMERS | GÖTEBORGS UNIVERSITET

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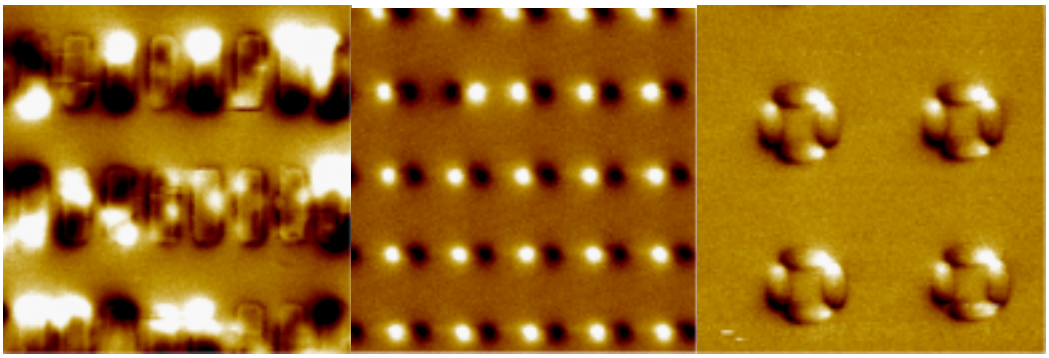
SMALL MAGNETIC PARTICLES - THE BUILDING BLOCKS OF ADVANCED MATERIALS

nanometer fabrication
micromagnetism
magnetic force microscopy



a) b) c)

MFM images of a) Ni particles 900 nm × 300 nm × 50 nm, b) elliptical Co-particles 450 nm × 150 nm × 20 nm and c) interacting, elliptical permalloy particles 450 nm × 150 nm × 24 nm.

Our project comprises experiments and numerical calculations and we can offer project work e. g. with the following themes:
*performing simulations of the magnetic structure and magnetization dynamics of magnetic particles (e.g. by applying a program from NIST http://math.nist.gov/oommf/),
*making magnetic measurements and magnetic force microscopy,
*constructing equipment for applying magnetic fields in a magnetic force microspe, MFM,
*preparing advanced tips for MFM?

Are you interested?
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