



universität
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Fakultät für Physik

Isotopenforschung und Kernphysik

EINLADUNG

zum

VERA - SEMINAR

von

Wolfhard MÖLLER

Institute of Ion Beam Physics und Materials Research
Forschungszentrum Dresden-Rossendorf, Dresden, Germany

Nanostructuring by Ion-Driven Self-Organisation

Fast ion beams are indispensable for the generation of functional nanostructures in conventional production processes, in particular for microelectronics using masking techniques of focused ion beams. However, due to fundamental mechanisms of ion-surface interaction and ion-beam synthesis, also broad-beam irradiation may result in surface nanotopographies and bulk nanostructures. Examples are buried nanocluster sheaths close to interfaces, and the development of periodic dot and ripple patterns on surfaces. The lecture will describe the corresponding mechanisms of generation and control, and will point out potential applications in nanoelectronics, nanooptics and nanomagnetism.

Donnerstag, 5. Juni 2008, 16:30 Uhr

**1090 Wien, Währinger Str. 17, "Kavalierstrakt",
1. Stock, Seminarraum von VERA**

R. Golser

W. Kutschera