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**Institute of Ion Beam Physics
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DIRECTORS

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DIVISIONS

ION TECHNOLOGY

(FWII)

Prof. Dr. Andreas Kolitsch / 3326

- ◆ MeV accelerators
- ◆ Ion Implanter / PIII operation
- ◆ Ion Beam and Plasma Assisted Deposition
- ◆ Biotechnological Materials
- ◆ Industrial Services and Projects

SEMICONDUCTOR MATERIALS

(FWIM)

Dr. Wolfgang Skorupa / 3612

- ◆ Semiconductors
- ◆ Optoelectronic Applications
- ◆ Rapid Thermal Annealing Processes
- ◆ Defect Engineering
- ◆ Positron Annihilation Spectroscopy

NANOFUNCTIONAL FILMS

(FWIN)

Prof. Dr. Jürgen Faßbender / 3096

- ◆ Modification of Magnetic Materials
- ◆ High Anisotropy Nanoparticles
- ◆ Magnetic Semiconductors / Spintronics
- ◆ Magnetization Dynamics
- ◆ Fullerene-like Materials

SEMICONDUCTOR SPECTROSCOPY

(FWIH)

Dr. Harald Schneider / 2880

- ◆ Semiconductor Quantum Structures
- ◆ Terahertz Spectroscopy
- ◆ Femtosecond Spectroscopy
- ◆ Free Electron Laser at ELBE
- ◆ Optical Characterization (PL, FTIR, Raman)

ION BEAM ANALYSIS

(FWIA)

Dr. Silke Merchel / 2802

- ◆ Ion-Solid-Interaction
- ◆ High-Energy Ion Beam Analysis
- ◆ Accelerator Mass Spectrometry
- ◆ Non-destructive Analysis of Art Objects
- ◆ Composition / Modification of Materials

STRUCTURAL DIAGNOSTICS

(FWIS)

Dr. Johannes von Borany / 3378

- ◆ Electron Microscopy (TEM, SEM)
- ◆ Electron Spectroscopy (AES, XPS)
- ◆ Mössbauer Spectroscopy
- ◆ X-ray Analysis
- ◆ Materials Research with Synchr. Radiation

THEORY

(FWIT)

Dr. Matthias Posselt / 3279

- ◆ Ion-Beam Synthesis of Nanostructures
- ◆ Formation and Evolution of Defects
- ◆ Atomistic Simulation of Ion implantation and Ion-Assisted Deposition
- ◆ Interatomic Potentials for Solids
- ◆ Reaction-Diffusion-Models

PROCESS TECHNOLOGY

(FWIP)

Dr. Bernd Schmidt / 2726

- ◆ Semiconductor Technology
- ◆ Focused Ion Beam Technology
- ◆ Thin Film Deposition
- ◆ Computer Aided Structure Design
- ◆ Electrical Characterization
- ◆ Clean Room Operation

