

## EINLADUNG

zum Vortrag  
von

**Prof. Dr. Yuval Golan**

Ben-Gurion University of the Negev,  
Department of Materials Engineering, Beer-Sheva, Israel

### **Nanomaterials at interfaces: New insights on wet chemical preparation of functional nanomaterials**

am

**Dienstag, 23. Jänner 2018, um 17:30 Uhr**

Ort: Lise-Meitner-Hörsaal, Fakultät für Physik, Universität Wien,  
1090 Wien, Strudlhofgasse 4 / Boltzmannngasse 5, 1. Stock

*Barrierefreier Zugang: Boltzmannngasse 5, Lift, 1. Stock rechts über den Gang zum Hintereingang des Hörsaals*

#### **Abstract:**

The talk will present the chemical bath deposition pathway to “chemical epitaxy”, which refers to the growth from solution of monocrystalline semiconductor thin films with well-defined orientation relations with respect to the substrate. Examples will be given for several systems, while describing the effect of deposition parameters on film morphology and resulting optical properties in the short wave infrared range. The second part of the talk will present the synthesis of highly uniform surfactant capped semiconductor nanoparticles, with emphasis on the role of ‘beneficial impurities’ in controlling shape and aspect ratio.