Arbeitsgruppenseminar EMMS

Wintersemester 2015/2016, Mittwochs 11:30-13:30 Uhr, N27 2.042 (Glaskasten)

<u> </u>		
14.10.	Tibor Lehnert	In-situ crystallization of calcium sulfates from liquids in graphene pockets
	Kecheng Cao	Preparation of Graphene/graphene-based hybrid materials and control of defects in graphene
21.10.		Final report Studienarbeit
	Alissa Oelschlägel	"Ladungs- und Schichtdickenbestimmung an frei tragenden Schichten im Rasterelektronenmikroskop"
		Final report Bachelor work
27.10.	Benjamin Gapp	Sample preparation and imaging of charge density waves in a few layers of 1T- TaS2 and 1T-TaSe2
5.11.	Ute Kaiser	General Discussion about the next tasks
11.11.	Sebastian Sturn Michael Mohn	Charge collection in battery materials - experimental setup and first results Momentum-resolved EELS - calculations for 2D multilayer systems
18.11.	Ute Golla-Schindler	State of the art battery project
	Robert Leiter	"Imaging defects in naondiamonds"
1.12.	Haoyuan Qi	"Controlling of octahedral rotations in LaNiO3/LaGaO3 superlattices via interfacial octahedral connectivity."
9.12.	Michael Kinyanjui	Charge density waves
	Dorin Geiger	Preparation and structure of Li ₉ V ₃ (P ₂ O ₇)(PO ₄) ₂
16.12.	Manuel Mundszinger	"FIB/SEM Investigations of Lithium Battery Materials"
	Marc Oldenburger	"Impedanzmessungen an Lithium-Ionen Zellen"
13.1.	Yohei Sato	High-Energy Resolution Electron Energy-Loss Spectroscopy Study of Interband Transitions Characteristic to Single-Walled Carbon Nanotubes
18.1.	Jörg Bernhard	Safety instruction
14:30 Uhr	Johannes Biskupek	Instrumentation
27.1.	Pia Börner	Exploring charge density waves in transition metal dichalcogenide monolayers and hybrid heterostructures.
	Felix Börrnert	State of the art CleanTech project
3.2.	Baokun Liang	Final report Master thesis
	Zhonbo Li	Phase contrast in STEM
10.2.		TEM investigations of GaN/InGaN heterostructures: HRTEM and weak beam
	Xiaodan Chen	dark-field imaging
	Anna Skenteridou	Final report Master thesis
11.2. 11Uhr	Yossi Lereah Faculty of Engineering, Tel Aviv University	Quantitative Time Resolved Electron Microscopy of Phase Transitions The following phase transitions were qualitatively studied by in situ transmission electron microscopy: Crystallization of amorphous alloys, Surface melting in Nano-particles including their Quasi-melted state. The measurements were obtained with the following characteristics: Time resolution was 0.04 sec (TV rate), relative temperature measurements with 0.1C steps, Conventional HREM resolution. I will review our results with the above experimental characteristics, and will point the potential of the recent developments in EM toward further studies.