

MAT science Week (24-April 27, 2018)

Workshop location: KBW building

Tuesday, April 24, 2018		Wednesday, April 25, 2018		Thursday, April 26, 2018		Friday, April 27, 2018	
AM	10:00	--- Registration ---		08:45	Mat Science Week - Session 4	08:45	Mat Science Week - Session 8
	10:30	Mat Science Week - Session 1		08:45	Optical metasurfaces created by ion irradiation of phase transition materials - Jura Rensberg (Friedrich-Schiller-Universität Jena)	08:45	Material modifications under extreme conditions delivered by swift heavy ions - Marcel Toulemonde (CIMAP-GANIL)
	10:30	Welcome		09:05	Secondary Ion and Neutral Mass Spectrometry with Swift Heavy Ions and Highly Charged Ions - Lars Breuer (Universität Duisburg-Essen)	09:15	Structural Transformations Induced at Extreme Conditions: Coupling High-Pressure Cells with Energetic Ion Beams - Maik Lang (University of Tennessee)
	10:50	Polymer membranes analyzed by Elastic Recoil Detection and Positron Annihilation Lifetime Spectroscopy - Günther Dollinger (Angewandte Physik und Messtechnik, Universität der Bundeswehr München, Neubiberg, Germany)		09:25	Abnormal lattice location and electrical activation in chalcogen-hyperdoped Si - Mao Wang (Helmholtz-Zentrum Dresden-Rossendorf)	09:45	High pressure devices: Design, performance & applications - Stefan Klotz (Université P&M Curie)
	11:10	Plasmonic nanostructures prepared by ion track technology and electrodeposition - Ina Schubert (GSI, Darmstadt)		09:45	Change of Ar diffusion coefficient in glass by heavy ion irradiation - Tieshan Wang (School of Nuclear Sciecnce and Technology, Lanzhou University, Lanzhou, China)	10:15	--- Coffee ---
	11:30	Ion track-based nanostructures for tuning plasmonic and electrical properties - Jinglai Duan (Materials Research Center, Institute of Modern Physics, Chinese Academy of Sciences) Jie Liu (Institute of Modern Physics, Chinese Academy of Sciences)		10:05	(Bio)molecular detection with track-etched single synthetic ion channel - Mubarak Ali (Technische Universität(TUDA))	10:45	Mat Science Week - Session 9
	11:50	Analysis of the Electric-Double-Layer formation by in-situ Rutherford Backscattering Spectrometry - Nasrin Baghban Khojasteh (Ion Beam Center, Institute of Ion Beam Physics and Materials Research, HZDR)		10:25	--- Coffee ---	10:45	Time-resolved measurements at high pressures using diamond anvil cells - Zuzana Konôpková (European XFEL GmbH)
	12:10	Single-ion-induced surface modifications on H/Si(001) - significant difference between slow highly charged and swift heavy ions - Michael Dürr (Justus-Liebig-Universität Gießen(JULGi))		11:00	Mat Science Week - Session 5	11:15	Equation of state for strong compression - Wilfried B. Holzapfel (Department of Physics University Paderborn)
	12:30	--- Lunch ---		11:00	Development of In-situ X-Ray Diffraction Measurements during Low Energy Ion Beam Etching - Darina Manova (Leibniz-Institut für Oberflächenmodifizierung (IOM) e.V.)	11:45	"High pressure" (tba) - Reinhard Boehler
				11:20	Simulation of Ion Beam induced Surface Dynamics - Alrik Stegmaier (2. Physik, Universität Göttingen)	12:15	Discussion
				11:40	Counterintuitive temperature dependence of ion beam shaping of Si nanopillars - Karl-Heinz Heinig (HZDR)	12:45	--- Lunch ---
				12:00	Application of ion beams to fabricate and tune ferromagnetic semiconductors - Shengqiang Zhou (Helmholtz-Zentrum Dresden-Rossendorf)		
PM	14:00	Mat Science Week - Session 2		12:20	Group Photo (until 12:40)		
	14:00	Development of an efficient high-current ion source for Accelerator Mass Spectrometry - Hans Hofsäss (University Göttingen)		12:40	--- Lunch ---	14:15	Mat Science Week - Session 10
	14:20	Detecting Beryllium-10 from exotic decays by Accelerator Mass Spectrometry (AMS) - Oliver Forstner (FSU Jena, HI Jena)		14:15	Materials Research irradiation facilities at GSI/Fair - Daniel Severin (GSI, Darmstadt)	14:15	Acoustic energy loss measurements of GeV ions - Walter Assmann (Ludwig-Maximilians-Universität München, Garching, Germany)
	14:40	Beryllium-7 at DREsden Accelerator Mass Spectrometry - Georg Rugel (Helmholtz-Zentrum Dresden-Rossendorf)		14:45	GSI Tour	14:45	Avalanches and crackling noise - Ekhard Salje (University of Cambridge)
	15:00	Production and Characterization of the 163Ho Source for the ECHo Project - Klaus Wendt (University of Mainz)		16:45	--- Coffee ---	15:15	Swift heavy ion-irradiated calcite (CaCO3) analyzed by UV-C Laser excited Fluorescence-Spectrometry - Ulrich Anton Glasmacher (Institute of Earth Sciences, University Heidelberg)
	15:20	KFSI-Meeting (until 16:20), Postersession, and Coffee		17:15	Mat Science Week - Session 7	15:35	Discussion
	17:00	Mat Science Week - Session 3		17:15	Welcome by Scientific Director of GSI/FAIR - Paolo Giubellino	16:30	--- Coffee ---
	17:00	Particle Ejection from an Energized Track: Comparison with the Nuclear Sputtering Process - Andreas Wucher (University Duisburg-Essen)		17:45	Enabling in situ diffraction and imaging studies during heavy relativistic ion irradiation and studies of photon-ion interactions: A „Compact Light Source @ SIS 100 @ FAIR - Bjoern Winkler (Goethe Universität)	17:00	Mat Science Week - Session 11
	17:20	Investigations and modifications of selected thin films by 1-2 MeV rare-gas ion beams - N.-T.H. Kim-Ngan (Nanostructure Laboratory, Institute of Physics, Pedagogical University, Podchorazych 2, 30-084 Cracow, Poland)		18:05	1-10 MeV/u cw-heavy ion beams at GSI - Maksym Miski-Oglu (GSI, Darmstadt)	17:00	Verification of velocity effect in yttrium iron garnet by HR-STEM observations of latent tracks. - Maxim Saifulin (FLNR, JINR)
	17:40	An energy and mass selective hyperthermal ion beam for ion-assisted thin film deposition purposes - Jürgen W. Gerlach (Leibniz-Institut für Oberflächenmodifizierung e.V., Leipzig, Germany)		18:25	PRIOR - Proton Microscope for FAIR - Dmitry Varentsov (GSI, Darmstadt)	17:20	Structural and mechanical properties modifications induced in α-Al2O3 under swift heavy ions - Alexis RIBET (CIMAP)
	18:00	Layer stability and interface properties of single- and bi-layer magnetite films grown on MgO(001) substrates - Magdalena Krupska (Nanostructure Laboratory, Institute of Physics, Pedagogical University, Podchorazych 2, 30-084 Cracow, Poland)		18:45	Plasma physics at FAIR using intense ion and laser beams - Paul Neumayer (GSI, Darmstadt)	17:40	Radiolysis of nucleobases under heavy ion irradiation: scaling laws for radio-resistance - Aditya Narain Agnihotri (Centre de Recherche sur les Ions, les Matériaux et la Photonique CIMAP, GANIL, CEA/CNRS/ENSICAEN/UNICAEN, Caen, France)
	18:20	Applying an Evolutionary Algorithm for Automated Ion Beam Analysis Data Evaluation - René Heller (Helmholtz-Zentrum Dresden-Rossendorf)		19:15	--- Dinner (GSI Canteen) ---	19:30	--- Dinner Restaurant Weißer Schwan --- (Frankfurter Landstraße 190, Darmstadt-Arheilgen)
	19:00	--- Dinner (GSI Canteen) ---					