Session Program

8-10 Dec 2020



MLZ User Meeting & German Neutron Scattering Conference 2020

Joint poster session of MLZ User Meeting and DN2020

Online event

Wednesday 9 December

Speaker Dr Raiph Gilles Progress of the MEPHISTO beamline Speaker Dr Jens Klenke Dr Jens Klenke Neutron diffraction study of the in-situ tension deformation behaviour of SiCp/ Zn composite Speaker Speaker Weimin Gan In-situ sputter deposition of Al electrodes on active layers of non-fullerene organic solar cells Speaker Speaker Ms Xinyu Xinyu Jiang Identification of Vacancy Defects in Lead Halide Perovskites Speaker David Keeble Surface distortion of Fe dot-decorated TiO2 nanotubular templates using time- flight grazing incidence small angle scattering Speaker Amitesh Paul Localized strain induced abnormal growth of cube oriented grain in a graphene nanosheets (GNS) reinforced copper matrix composite Speaker Paidong Shi Co-Nonsolvency Transition of PNIPMAM-based Block Copolymer Thin Films in Water/Acetone Mixtures Speaker Peixi Wang Phase Transformation in AlTiNbVW High Entropy alloy Speaker Xiaohu Li Highly ordered titania films with incorporated germanium nanocrystals angel		Materials Science group at Heinz Maier-Leibnitz Zentrum (MLZ)
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Xiaohu Li	Peix	se Transformation in AlTiNbVW High Entropy alloy
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In Operando Neutron Reflectometry Study of SEI Formation on Lithium Metal Anodes Modified with PS-b-PEO Thin Films

Speaker

Mr Suzhe Liang

Temperature-dependent Phase Behavior of the Thermoresponsive Polymer Poly(Nisopropylmethacrylamide) in Aqueous Solution

Speaker

Chia-Hsin Ko

Influence of the scanning strategy on the residual stress state in IN 718 additive manufactured parts

Speaker

Dr Itziar Serrano-Munoz

The effect of CsBr doping on the crystallization kinetics of perovskite films

Speaker

yuqin zou

Feasible tuning of microstacking structure and oxidation level in PEDOT: PSS thin films via sequential post-treatment

Speaker

Suo Tu

Printed block copolymer templated ZnO photoanodes for photovoltaic applications

Speaker Ting Tian

Precursor engineering of two-step slot-die coated perovskite layers by TBP, MAI and DMSO addition

Speaker

Oleg Shindelov

Separation of the Formation Mechanisms of Residual Stresses in LPBF 316L

Speaker

Alexander Ulbricht

Micromechanical response of multi-phase Al-alloy matrix composites under uniaxial compression

Speaker Sergei Evsevleev

Morphology investigation of printed active layers of hybrid solar cells with grazing incidence neutron and x-ray scattering techniques

Speaker Volker Körstgens

Neutron imaging for the investigation of the lyophilisation of amorphous bulk solids

Speaker Petra Foerst

LLZO: AI, Ta, Nb, W - different dopants and their effect on microstructure and lithium diffusion

Speaker

Charlotte Fritsch

Micromechanics near the yield point of Nickel based superalloys

Speaker

Mr Jonas von Kobylinski

In situ neutron dilatometry investigation of $\beta o \rightarrow \beta$ phase transformation in TiAl alloys

Speaker

Victoria Kononikhina

Following the interface formation during sputter deposition on perovskite films

Speaker

Lennart Reb

Structured graphite anodes for Li-ion batteries

Speaker Ivana Pivarníková

Rotational and long range diffusion in a lithium amide-lithium borohydride mixture

Speaker

Neslihan Aslan

Enhancing the High-Temperature Strength of a Co-Base Superalloy by Optimizing the y/y' Microstructure

Speaker Daniel Hausmann

Magnetic scattering of polarized neutrons on structures of reduced graphene oxide embedded in the polystyrene matrix

Speaker

Alexander Bugrov

Liquid dynamics of phase-change materials

Speaker Prof. Shuai Wei

Angular Distribution of Neutrons Around Thick Beryllium Target of Accelerator-Based 9Be(d, n) Neutron Source

Speaker Mr Abdullah Shehada

The cold neutron imaging beam line ANTARES

Speaker Michael Schulz

Current Status of PERC

Speaker Mr Manuel Lebert

3D-printed humidity chamber for neutron scattering on thin films

Speaker

Tobias Widmann

A new high resolution detector system at ANTARES

Speaker

Yiyong Han

A tensile rig for neutron imaging

Speaker

Simon Sebold

Neutron Depth Profiling at the PGAA facility of MLZ

Speaker

Robert Neagu

Quantum cascade laser-based infrared spectrometer combined with small angle neutron scattering for life science applications

Speaker Dr Tobias Schrader

CHARM - A fast, high resolution curved 3He-based Multiwire- Proportional Chamber for the powder diffractometers DMC and ERWiN

Speaker

Dr Karl Zeitelhack

URANOS - a voxel engine Neutron Transport Monte Carlo Simulation

Speaker Dr Markus Köhli

Nested Optic for Neutron Focusing

Speaker

Christoph Herb

Event-Mode Imaging for Improved Spatial Resolution in Fast Neutron Imaging

Speaker Mr PRABHA SHANKAR -

Neutron guides and Ni/Ti multilayer supermirror coatings by the FRM II Neutron Optics group

Speaker Jose Manuel Gomez Guzman

POWTEX - Angular- and Wavelength Dispersive, High-Intensity Neutron TOF Diffractometer

Speaker Yannick Meinerzhagen

DNS - diffuse neutron scattering spectrometer at MLZ

Speaker Thomas Mueller

Technical design of a levitated dipole for confinement of a low-temperature, longlived, electron-positron plasma Speaker

Alexander Card

Injection of positrons into an electron space charge in a dipole field

Speaker

Markus Singer

A buffer-gas trap for the NEPOMUC high-intensity low-energy positron beam

Speaker Adam Deller

PMMA-b-PNIPAM thin films display cononsolvency driven response in mixed watermethanol atmospheres

Speaker Christina Geiger

Water dynamics in a concentrated aqueous solution of perdeuterated poly(Nisopropylacrylamide) across the cloud point

Speaker Ms Bahar Yazdanshenas

Phase transition kinetics in a doubly thermo-responsive poly(sulfobetaine)-based block copolymer thin film

Speaker

Lucas Kreuzer

Studying the dynamics of PTB7:PCBM blend films with quasielastic neutron scattering

Speaker Dominik Schwaiger

Structural Properties of Micelles formed by Telechelic Pentablock Quaterpolymers with pH-responsive Midblocks and Thermoresponsive End Blocks in Aqueous Solution

Speaker

Mr Florian A. Jung

Dehydration of thermoresponsive molecular brushes with block or random copolymer side chains

Speaker

Jia-Jhen Kang

The relevance of protein dynamics for protein folding: The case of apomyoglobin

Speaker Andreas Stadler

KWS-2 the high Intensity / wide Q-range SANS diffractometer

Speaker Christian Lang

Stimuli-Responsive Micelles from Amphiphilic Diblock Copolymers

Speaker Yanan Li

A GISANS study of bio-hybrid films: Influence of pH on spray-coated ßlactoglobulin:TiO2 film morphology for bio-templated titania nanostructures

Speaker

Julian Eliah Heger

Influence of benzocaine, propranolol and cholesterol on phospholipid bilayers

Speaker

Gaetano Mangiapia

Spray deposited anisotropic magnetic hybrid thin films containing PS-b-PMMA and strontium hexaferrite magnetic nanoplates

Speaker

Mr Wei Cao

Translocation of non-ionic synthetic polymers through lipid membranes

Speaker

Ekaterina Kostyurina

SPUTTER DEPOSITION OF SILVER ON NANOSTRUCTURED PMMA-b-P3HT COPOLYMER THIN FILMS

Speaker

Marc Gensch

Morphology control of PS-b-P4VP templated monolayer mesoporous Fe2O3 thin films

Speaker

Shanshan yin

Conductivity stability of EMIM-DCA post-treated semi-conducting PEDOT:PSS polymer thin films under elevated temperatures

Speaker

Anna-Lena Oechsle

Curvature effects on the stability of lipid bicontinuous cubic phase films interacting with gold nanoparticles

Speaker

Andrea Ridolfi

Cononsolvency-Induced Collapse Transitions in Thin PMMA-b-PNIPAM and PMMAb-PNIPMAM Films

Speaker Julija Reitenbach

KWS-3 very small-angle neutron scattering focusing diffactometer at MLZ

Speaker

Vitaliy Pipich

Establishing deuteration services for MLZ users at the JCNS

Speaker Lisa Fruhner

DMPC-glycyrrhizin model membranes in the absence and presence of cholesterol: From small unilamellar vesicles to flat disc structures

Speaker Friederike Gräbitz-Bräuer

Multiple Length Scales Hydration in Polymer Membranes for Fuel Cells

Speaker

Dr Aurel Radulescu

Nano-Structure Development of Oral Pharmaceutical Formulations in Simulated Intestine - D-contrast SANS and DLS

Speaker

Thomas Nawroth

Development of an indirect spectrometer Mushroom

Speaker Mr Ran Tang

Mr Ran Ian

KOMPASS - the polarized cold neutron triple-axis spectrometer at the FRM II

Speaker

Dr Dmitry Gorkov

Phonon renormalization in LaCoO\$_3\$

Speaker Frank Weber

Thin film growth by Molecular Beam Epitaxy for MLZ users

Speaker Sabine Pütter

High-resolution powder diffractometer SPODI

Speaker

Markus Hoelzel

Estimation of lithiated cathode loss for cycled 18650-type battery by in situ neutron powder diffraction

Speaker

Jiangong Zhu

Nondestructive determination of Li concentration and distribution in prismatic Liion battery

Speaker Volodymyr Baran

Distortions and Superstructure in Inverse Perovskite Nitrides

Speaker Lukas Link

In Situ Printing: Insights into the Morphology Formation and Optical Property Evolution of Slot-Die-Coated Active Layers Containing Low Bandgap Polymer Donor and Nonfullerene Small Molecule Acceptor

Speaker Kerstin Wienhold

MIEZETOP for the cold triple axis spectrometer (TAS) MIRA

Speaker

Henrik Gabold

Hot Neutron Diffraction Experiments under Extreme Conditions on Single Crystals with HEiDi

Speaker

Dr Martin Meven

Hybrid high performance computing to covert the molecular Dynamics simulation to neutron and x-ray data

Speaker

Mr Arnab Majumdar

Commissioning of the 'Energy research with Neutrons' option at MLZ.

Speaker

Michael Heere

Validating Molecular Dynamics Computer Simulations with Neutron Scattering Data

Speaker

Veronika Reich

Low-Energy Positron Beam for Near-Surface Doppler-Broadening Spectroscopy

Speaker

Lucian Mathes

Morphology of fullerene-free bulk heterojunction blends for photovoltaic applications

Speaker Sebastian Grott

Complementarity of PNR and XMCD for monolayer-magnetism in hetero-epitaxial Fe on Cu(001)

Speaker

Dr Amitesh Paul

PUMA: thermal three-axes spectrometer equipped with multi-analyzer and unique polarization option

Speaker Jitae Park

KWS-1 SANS instrument with polarization analysis

Speaker Dr Artem Feoktystov

REFSANS: The horizontal time-of-flight reflectometer with GISANS option at the Heinz Maier-Leibnitz Zentrum

Speaker

Gaetano Mangiapia

Germanium-based nanostructure synthesis guided by amphiphilic diblock copolymer templating

Speaker Christian L. Weindl

CSPEC- a cold time of flight spectrometer for the ESS

Speaker Wiebke Lohstroh

The Myelin Basic Protein and its Phase Behaviour

Speaker

Igor Graf von Westarp

Oscillatory dynamics in simple systems at elevated temperatures -- beyond a perturbational treatment of anharmonicity

Speaker

Michael Leitner

The strengths of small-angle neutron scattering for magnetic nanoparticle characterization

Speaker

Mathias Bersweiler

TOFTOF - cold neutron time-of-flight spectrometer

Speaker Marcell Wolf

Incommensurate magnetic systems studied with the three-axis spectrometer MIRA

Speaker

Robert Georgii

Thermal effects on nanoscale morphologies and chemical group vibrations of thermoresponsive double hydrophilic block copolymers in aqueous solutions

Speaker Dr Apostolos Vagias

Macromolecular Neutron Diffraction at the Heinz Maier-Leibnitz Zentrum MLZ

Speaker Andreas Ostermann

The Coincidence Doppler-Broadening Spectrometer at NEPOMUC

Speaker Vassily Vadimovitch Burwitz

The resonant neutron spin echo spectrometer RESEDA

Speaker

Johanna K. Jochum

Magnons in the collinear antiferromagnetic phase of Mn5Si3

Speaker

Dr Nikolaos Biniskos

Probing the complex loading-dependent structural changes in ultrahigh drugloaded polymer micelles by small-angle neutron scattering

Speaker Benedikt Sochor

Covid-19 related research opportunities at the MLZ

Conformational and Characteristic Modulation of Prothymosin Alpha following the Addition of Guanidinium Chloride investigated with X-ray / Neutron Scattering Techniques

Speaker

Luman Haris

Utilizing very low flux nuclear reactors for neutron imaging

Speaker

Rico Hübscher

High-resolution spectroscopy and diffraction at TRISP

Speaker

Dr Keller Thomas

Multimodal Imaging from meV to MeV Neutrons combined with Gamma Imaging at the NECTAR Instrument

Speaker Dr Adrian Losko

Cryo-TEM - A Complementary Technique for Neutron Scattering

Speaker Marie-Sousai APPAVOU

The Robot Positioning System at the Materials Science Diffractometer STRESS-SPEC

Speaker Martin Landesberger

Evolution of the structure and dynamics of bovine serum albumin induced by thermal denaturation

Speaker

Olga Matsarskaia

Effect of the protein size on the diffusion of proteins in a cell-like environment - first results from BATS

Speaker Christian Beck

Phase analysis of steel using neutron grating interferometry and bragg edge imaging

Speaker Tobias Neuwirth

Boron-lined tubes and readout electronics for low count-rate environments

Speaker

Markus Köhli

New analysis frameworks for the analysis of inelastic measurements from neutron backscattering spectrometers

Speaker

Christian Beck

Short-Time Self-Diffusion of Salt- and Temperature-Dependent Protein Clusters

Speaker Tilo Seydel

Out-of-equilibrium processes during phase transitions: An in-situ crystallization study of hybrid perovskites

Speaker

Shambhavi Pratap

The Absolute Direction of the Dzyaloshinskii-Moriya Interaction in Hematite Determined by Polarized Neutron Diffraction

Speaker

Mr Henrik Thoma

In situ light scattering techniques at neutron instruments at the MLZ - experiences made and challenges ahead

Speaker

Dr Tobias E. Schrader

Comparison of guide systems for instruments at the high brilliance source (HBS)

Speaker Zhanwen Ma

Structure and dynamics of polyelectrolytes in water solution

Speaker

Ekaterina Buvalaia

NREX - neutron reflectometer with X-ray option

Speaker Yury Khaydukov

Development of a Sample Environment for in-situ Dynamic Light Scattering in Combination with Small Angle Neutron Scattering for the Investigation of Soft Matter at the European Spallation Source

Speaker

Lars Wiehemeier

The small-angle scattering instrument SANS-1 at MLZ

Speaker Sebastian Muehlbauer

FLUKA and MCNP simulation benchmark for neutron yield measurement in HBS project

Speaker Mr Jiatong Li

The SoNDe high-flux neutron detector

Speaker Sebastian Jaksch

Magnetic dynamics in the single-domain state of the cubic helimagnet ZnCr2Se4

Speaker

Dmytro Inosov

The high resolution neutron backscattering spectrometer SPHERES

Speaker

Michaela Zamponi

Bambus: introducing a new inelastic neutron multianalyser for Panda at MLZ

Speaker

Alistair Cameron

Microstructural characterization of European historical swords through neutron imaging

Speaker

Francesco Grazzi

Influence of salt (NaCl) on structure and dynamics of phospholipid membranes

Speaker

Sebastian Jaksch

Monte Carlo simulation and optimization for the micro-channel target of the HBS project

Speaker Ms Qi Ding

In-situ RheoSAXS: Relating Nanostructure to Macroscopic Properties Using A Laboratory Setup

Speaker

Jiri Kislinger

Towards Polarization Analysis for TOPAS

Speaker Christian Franz

MARIA - The high-intensity polarized neutron reflectometer of JCNS

Speaker Alexandros Koutsioumpas

Field Dependence of Magnetic Disorder in Nanoparticles

Speaker

Dominika Zakutna

Engineering of the thermal moderator for a Compact Accelerator driven Neutron Source (CANS)

Speaker Ulrich Rücker

Structure of Composite Materials of pNIPAM Brushes and Magnetic Nanoparticles

Speaker

Philipp Ritzert

Manufacturing a safer world: Residual Stress in AM determined by diffraction techniques

Speaker Dr Alexander Evans

The Fierz interference term and recent PERKEO III measurements

Speaker

Max Lamparth

Impact of ethylenediaminetetraacetate ligands on CdS nanoparticle formation mechanism

Speaker

Mr Mirco Eckardt

Neutron yield measurements for Be, V and Ta targets from 22-42 MeV proton beams

Speaker

Marius Rimmler

PANDA - the cold neutron TAS at MLZ

Speaker

Astrid Schneidewind

Replacing MultiView and LabView with NICOS

Speaker Petr Čermák

An insight into the local structure and dynamics of A2Zr2O7

Speaker

Ms Kristina Vlášková

Pharmaceutical Drug Carriers organized in Nano-Domains - Study and Design upon Neutron Scattering with contrast variation, SAXS and DLS

Speaker Dr Thomas Nawroth

Sample Environment at MLZ

Speaker Dr Alexander Weber

The new Total Reflection High-Energy Positron Diffractometer at NEPOMUC

Speaker

Mr Matthias Dodenhöft

Calibration of p-XRF on ancient pottery using NAA results

Speaker Michaela Schauer

A study of Linear and Nonlinear Aging in Lithium-Ion Cells by Neutron Diffraction

Speaker

Neelima Paul

Fabrication on Plasmonic Nanostructures in Photoelectronic Devices

Speaker Mr Tianfu Guan

In-situ neutron diffraction studies on micro- and macrostrains in Ni-base superalloys

using neutron powd	antification of lithium and electrolyte losses in Li-ion batteries er diffraction
Speaker	
Dominik Petz	
Tracking the format	ion of MAPbI3 by in situ GIWAXS
Speaker	
Manuel Scheel	
In-situ high tempera	ature precipitation study in new alloy VDM 780 using SANS
Speaker	
Cecilia Solis	
Wearable smart skir rods for pressure ar	n based on triboelectric nanogenerator and CdSe/CdS quantur nd tensile sensing
Speaker	
Mr TIANXIAO XIAO	
	grading perovskite solar cells: What atmosphere should we
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The zero step for de choose?	
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18:00

Dr Zsolt Révay