



# MLZ User Meeting 2024

## Friday 6 December 2024

### Poster Session (13:45 - 16:45)

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[72] Optimization Methods for Material Science	ALAM, Saad	P-001
[112] Characterizing an electron plasma into a levitated dipole to understand future positron injection and creation of positron-electron plasma	BAYER, Veronika	P-002
[128] PANDA - Cold TAS going thermal	Dr BEDDRICH, Lukas	P-003
[116] A Scintillation Detector as a First Main Detector for PERC	BERNERT, Karina	P-004
[126] Origins of polysaccharide conformation and viscoelasticity in miscible heterogeneous solvent	Dr BORAH, Pallab Kumar	P-005
[85] NICOS: News and developments	Mr BRANDL, Georg	P-006
[38] TUM Sample Environment: Preparing for user operation relaunch 2025	BUCHNER, Andreas	P-007
[98] APEX-LD: a levitated dipole trap for the confinement of an electron-positron pair plasma	CARD, Alexander	P-008
[49] Kinetics of nanostructural and interfacial evolution induced by photopolymerization for submicrometer additive manufacturing	CHEN, Shouzheng	P-009
[44] Facet-dependent photovoltaic efficiency and stability variations in mixed Sn-Pb perovskite solar cells	Ms CI, Xiaojing	P-010
[132] Commissioning of a polarized eV pulsed neutron beam and current mode gamma detector array at LANSCE	DICKERSON, Kylie	P-011
[90] Structural studies of halide-based superionic Lithium conductors	FALSINA, Francesco	P-012
[29] KWS-2 Extended Q-Range SANS Diffractometer: Cold vs. Thermal Neutron Use	FANOVA, Anastasiia RADULESCU, Aurel	P-013
[27] Texture of Hot-Compressed Metastable $\beta$ -Titanium Alloy Ti5321 Studied by Neutron Diffraction	Dr GAN, Weimin	P-014
[30] in hospice adaptation of photosynthetic membranes of Symbiodinium to rising seawater temperatures	GARVEY, Christopher	P-015
[25] Resolution and sensitivity improvements in the detection of positrons using CMOS technology.	GUATIERI, Francesco	P-016
[87] Biopolymer-Templated Deposition of Hierarchical 3D-Structured Graphene Oxide/Gold Nanoparticle Hybrids for Surface-Enhanced Raman Scattering	GUO, Yingjian	P-017
[14] FIREPOD: A new thermal high-throughput powder diffractometer at MLZ	HAUF, Christoph	P-018
[37] Electric field-assisted positron annihilation lifetime spectroscopy: Investigation of interface regions in thin-film Metal-Oxide-Silicon capacitors	HELM, Ricardo	P-019
[56] High-efficiency diffractometer ERWIN	HOELZEL, Markus	P-020
[7] Neutron Spin Echo Spectroscopy with the J-NSE "PHOENIX: recent scientific examples	HOLDERER, Olaf	P-021
[97] Towards the development of polarization analysis with high energy resolution for SPHERES	HUANG, Chuyi	P-022

<b>[131] Non-insulated ReBCO coils for the confinement of Electron-Positron Pair Plasmas</b>	HUSLAGE, Paul	P-023
<b>[118] Physics-informed input representations for SANS patterns classification</b>	HÄUSLER, Stefan	P-024
<b>[59] Structural analysis of cation mixing in NCA-type battery cathodes</b>	HÖLDERLE, Tobias	P-025
<b>[95] Towards F.A.I.R. data: Research data management at JCNS</b>	IHSAN, Ahmad Zainul	P-026
<b>[6] Sputter-Deposited TiO<sub>x</sub> Thin Film as a Buried Interface Modification Layer for Efficient and Stable Perovskite Solar Cells</b>	JIANG, Xiongzhao	P-027
<b>[53] Gas quenching process under ambient conditions for stable and efficient inverted perovskite solar cells</b>	JIN, Zhaonan	P-028
<b>[39] The Resonant Spin-Echo Spectrometer RESEDA</b>	JOCHUM, Johanna	P-029
<b>[117] Analysis of Neutron Diffraction Patterns for the Identification and Quantification of Crystalline Phases</b>	KADRI, Loubna	P-030
<b>[123] NREX and TRISP upgrades</b>	KELLER, Thomas	P-031
<b>[73] Status Report of the MEPHISTO Beamline</b>	KLENKE, Jens	P-032
<b>[41] Influence of Azobenzene Moieties on the Swelling Behavior of Poly(Dimethylacrylamide) Films in Water Vapor under UV-Irradiation</b>	KOSBAHN, David	P-033
<b>[70] EasyTexture: a new software for data reduction at POWTEX</b>	KOSHCHII, Oleksandr	P-034
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<b>[82] Liquefaction of Li-Mg-N-H hydrogen storage system by LiBH<sub>4</sub> as a way to accelerate its dehydrogenation</b>	KUZNETSOVA, Anastasiia	P-036
<b>[3] Suppressed degradation process of PBDB-TF-T1:BTP-4F-12 solar cells with solid additive EH-P</b>	LI, ZERUI	P-037
<b>[115] Silicon detector for neutron beta decay measurements with PERC</b>	LEBERT, Manuel	P-038
<b>[134] In situ synchrotron X-ray diffraction study of deformation behaviour of Ti-6Al-4V-Mo alloys manufactured using Laser Powder Bed Fusion</b>	LI, Guichuan	P-039
<b>[78] Tracking degradation of non-fullerene organic solar cells under dynamic environmental conditions</b>	LI, Lixing	P-040
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<b>[2] Focusing with a nested mirror optic on the thermal triple-axis spectrometer PUMA at MLZ</b>	MERRITT, Adrian	P-045
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<b>[23] Micrometer positron beam at the Scanning Positron Microscope</b>	MITTENEDER, Johannes	P-048
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<b>[114] Plans to characterize the NEPOMUC beam with a Retarding Field Analyzer</b>	NISSL, Stefan	P-051
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<b>[74] The Macromolecular Neutron Single Crystal Diffractometer BIODIFF for Proteins at the Heinz Maier-Leibnitz Zentrum MLZ</b>	Dr OSTERMANN, Andreas	P-053
<b>[52] Unveiling the Kinetics of Block Copolymer Micelles Close Packing by In Situ GISAXS</b>	PAN, Guangjiu	P-054
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<b>[104] Light Yield Linearity of the BC-408 Plastic-Scintillator under Electron Excitation</b>	SCHILBERG, Johannes	P-063
<b>[129] Application of Machine Learning in Event-Mode Neutron Imaging</b>	SCHMID, David	P-064
<b>[57] High-resolution powder diffractometer SPODI</b>	SENYSHYN, Anatoliy	P-065
<b>[50] Defect evolution in additively manufactured components with neutron grating interferometry (nGI)</b>	SINGH, Sapam Ningthemba	P-066
<b>[66] Relocation of the cold triple axis spectrometer FLEXX to MLZ, Munich: Larmor diffraction and inelastic scattering</b>	SKOULATOS, Markos	P-067
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<b>[47] DEVA - Data Evaluation Group</b>	Dr STIEGHORST, Christian REBELO-KORNMEIER, Joana Dr PAUL, Neelima	P-070
<b>[76] DAPHNE Vision</b>	TRAGESER, Christian	P-071
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<b>[89] Multiplexing TAS measurements assisted by active learning</b>	VITALE, Eugenio	P-073
<b>[43] Temperature-resolved Crystal Structure of Ethylene Carbonate</b>	WESTPHAL, Lea	P-074
<b>[32] TOFTOF – actual status and renewal concept</b>	WOLF, Marcell	P-075
<b>[101] Mapping Scintillation Light Distribution of Individual Neutron Interactions in Scintillator Screens using LumaCam Detectors</b>	WOLFERTZ, Alexander	P-076
<b>[4] A Small Amount of Sodium Difluoro(oxalate)borate Additive Induces Anion-Derived Interphases for Sodium-Ion Batteries</b>	XIA, Lan	P-077

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<b>[60] Crosslinking mechanisms in solutions of alginate-based graft copolymers with thermoresponsive side chains</b>	XU, Wenqi	P-079
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<b>[84] SECoP: The Sample Environment Communication Protocol</b>	ZAFT, Alexander	P-081
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<b>[28] Insights into the Cyclability of LiF-Coated LiNi<sub>0.9</sub>Co<sub>0.05</sub>Mn<sub>0.05</sub>O<sub>2</sub> Cathodes in Sulfide-Based All-Solid-State Batteries</b>	ZHANG, Ziyang	P-083
<b>[19] Multipoint Anionic Bridge: Asymmetric Solvation Structure Improves the Stability of Lithium-Ion Batteries</b>	Mr ZHENG, Tianle	P-084
<b>[22] Towards transferable force fields for simulating biological membranes</b>	ZHOU, zihan	P-085
<b>[119] Annihilation-gamma spectra of magnetically confined positrons scattering, cooling, and forming positronium</b>	VON DER LINDEN, Jens	P-086