



# 5th internal biannual science meeting of the MLZ

## Thursday 22 June 2023

### Parallel 5: Material Science 2 - Seminar room ground floor (09:30 - 10:30)

-Conveners: Michael Hofmann

| time  | [id] title   | presenter       |
|-------|--|-----------------|
| 09:30 | [4] Elasto-plastic behaviour in titanium alloys  | HOELZEL, Markus |
| 09:45 | [1] Lamella orientation control of $\beta$ -Solidifying TNM Alloys via High-Temperature Compression    | KEITA, Mohamed  |
| 10:00 | [27] Targeted use of residual stress in electrical steel to increase energy efficiency                 | SEBOLD, Simon   |
| 10:15 | [28] Defect detection in additively manufactured metal components using neutron grating interferometry | PANT, Prabhat   |

### Parallel 5: New Methods - Seminar room roof (09:30 - 10:30)

-Conveners: Sebastian Busch

| time  | [id] title   | presenter              |
|-------|--|------------------------|
| 09:30 | [10] Diffraction computed tomography and its applications  | SENYSHYN, Anatoliy     |
| 09:45 | [24] Why elemental analysis is important in neutron scattering centers?  | Dr REVAY, Zsolt        |
| 10:00 | [53] A Bayesian approach to fit Molecular Dynamics (MD) simulations to neutron and X-ray diffraction and spectroscopy data on the example of water | Mrs REICH, Veronika    |
| 10:15 | [57] LiBH <sub>4</sub> as a liquefying catalyst for hydrogen release/uptake from a storage material  | KUZNETSOVA, Anastasiia |

### Parallel 5: Soft Matter 2 - Seminar room basement (09:30 - 10:30)

-Conveners: Michaela Zamponi

| time  | [id] title   | presenter          |
|-------|--|--------------------|
| 09:30 | [45] Polysaccharide-based nano-/micro-gels for the food sector   | FANOVA, Anastasiia |
| 09:45 | [14] How is the biological effect of fast neutrons on human tissue mediated?   | SOMMER, Lucas      |
| 10:00 | [52] Effect of Amyloid- $\beta$ (1-42)-Monomer and protofibrils on dynamics of brain phospholipid liposomes and the Aggregation Kinetics Amyloid- $\beta$ (1-42) | DUBEY, Purushottam |