

Session Program

8-10 Dec 2020



MLZ User Meeting & German Neutron Scattering Conference 2020

MLZ Users 2020 - Materials Science

Online event

Tuesday 8 December

13:00

MLZ Users 2020 - Materials Science: Part 1/3

Session | **Location:** Online event | **Conveners:** Michael Hofmann, Ralph Gilles

13:00–13:40

Development of novel Co-base superalloys for turbine applications by advanced characterization techniques

Speaker

Steffen Neumeier

13:40–14:05

On the Determination of Residual Stresses in AM Lattice Structures

Speaker

Dr Tobias Fritsch

14:05–14:30

Neutron PDF for insight into hydration shells around iron oxide nanoparticles

Speaker

Sabrina Thomä

14:30

15:00

MLZ Users 2020 - Materials Science: Part 2/3

Session | **Location:** Online event | **Conveners:** Michael Hofmann, Ralph Gilles

15:00–15:25

Understanding mechanical behaviour of Nb₃Sn superconducting magnet coils by combined neutron diffraction and macroscopic stress strain measurements

Speaker

Christian Scheuerlein

15:25–15:50

Impact of Sulfur on the melt dynamics of glass forming Ti₇₅Ni_{25-x}S_x

Speaker

Johanna Wilden

15:50–16:15

Advances in neutron and gamma imaging of lead acid batteries

Speaker

Jose Miguel Campillo

16:15–16:40

In-operando neutron reflectometry reveals the solid electrolyte interface formation on surface coated silicon based anodes for lithium-ion batteries

Speaker

Simon J. Schaper

16:40

17:10

MLZ Users 2020 - Materials Science: Part 3/3

Session | **Location:** Online event | **Conveners:** Michael Hofmann, Ralph Gilles

17:10–17:35

Search for vacancies in concentrated solid-solution alloys

Speaker

Mrs L. Resch

17:35-18:00

Lithium Quantification in Lithium-Ion Batteries Using Operando Neutron Depth Profiling

Speaker

Fabian Linsenmann

18:00