

**Session Program**

**7-8 Dec 2021**



**MLZ User Meeting 2021**

**Structure Research**

## Tuesday 7 December

09:00

### Structure Research: Structure Research I

Session | Location: | Conveners: Martin Meven, Anatoliy Senyshyn

09:00–09:05 **Welcome**

**Speaker**

Anatoliy Senyshyn

09:05–09:30

**Gas adsorption studied by in situ powder diffraction: from structural evolution to thermodynamics**

**Speaker**

Yaroslav Filinchuk

09:30–09:55

**Capturing the catalytic proton of dihydrofolate reductase: implications for general acid-base catalysis**

**Speaker**

Qun Wan

09:55–10:20

**Studying the uniformity of custom-made Li-ion pouch cells using operando neutron powder diffraction and spatially resolved synchrotron X-ray diffraction**

**Speaker**

Daniel Sørensen

10:20

13:15

### Structure Research: Structure Research II

Session | Location: | Conveners: Anatoliy Senyshyn, Martin Meven

13:15–13:40

**Exploring the synthetic effects on disorder in fast ionic conducting materials using neutron diffraction**

**Speaker**

Wolfgang Zeier

13:40–14:05

**Garnet to hydrogarnet: effect of post synthesis treatment on cation substituted LLZO solid electrolyte and its effect on Li ion conductivity**

**Speaker**

Charlotte Fritsch

14:05–14:30

**On the nature of critical compositions of Na<sub>0.5</sub>Bi<sub>0.5</sub>TiO<sub>3</sub>-based lead-free piezoelectrics**

**Speaker**

Prof. Rajeev Ranjan

14:30

16:15

**Structure Research: Structure Research III**

Session | Location: | Conveners: Martin Meven, Anatoliy Senyshyn

16:15-16:40 **Hidden Charge Order in an Iron Oxide Square-Lattice Compound****Speaker**

Darren Peets

16:40-17:05

**Compositional Studies of Metals with Complex Order by means of the Optical Floating-Zone Technique****Speaker**

Andreas Bauer

17:05-17:30 **Spin dynamics in Multiferroic Ba<sub>2</sub>CoGe<sub>2</sub>O<sub>7</sub>****Speaker**

Dr Rajesh Dutta

17:30