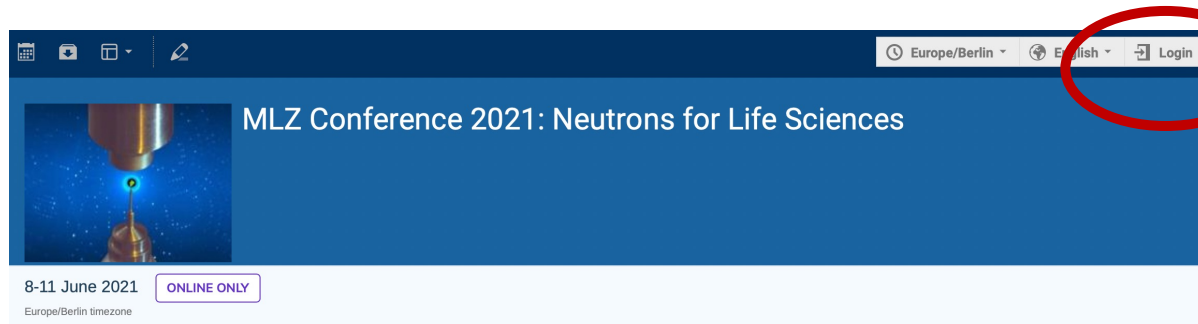


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Login via your Indico account:

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Overview
Committees and organisers
Sessions and confirmed speakers
Scope and topics
Timetable

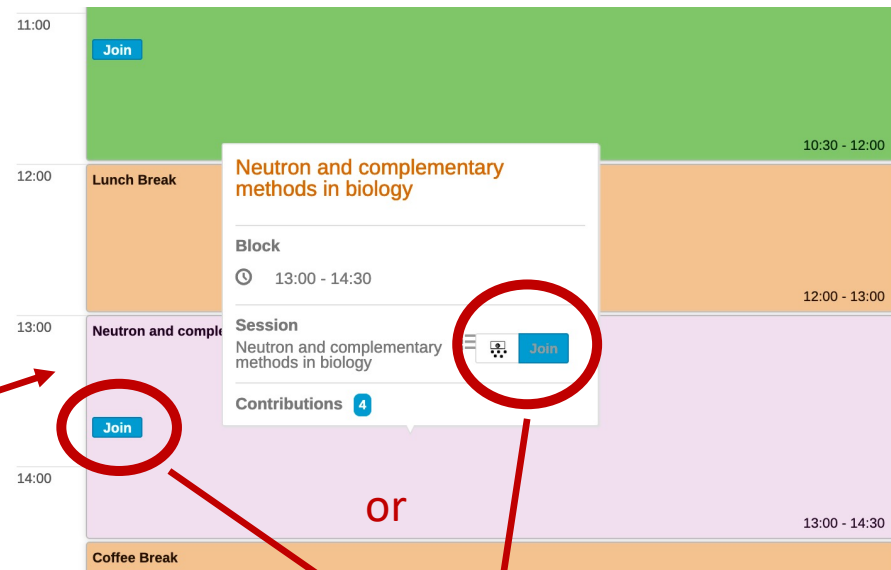
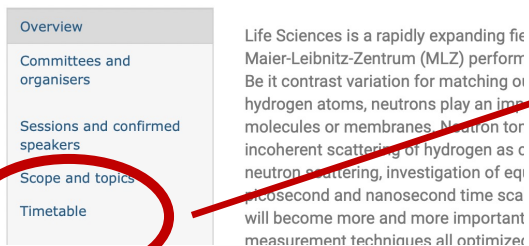
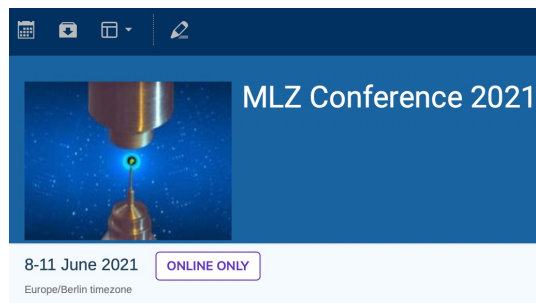
Life Sciences is a rapidly expanding field in the use of neutrons. The number of users at the Heinz Maier-Leibnitz-Zentrum (MLZ) performing experiments related to life sciences is constantly growing. Be it contrast variation for matching out protein, DNA or lipids or the hunt for catalytical important hydrogen atoms, neutrons play an important role in determining structures of biologically relevant molecules or membranes. Neutron tomography on living plants or tissue uses the huge difference in incoherent scattering of hydrogen as compared to deuterium. Using incoherent and coherent inelastic neutron scattering, investigation of equilibrium dynamics of biological systems is possible on the picosecond and nanosecond time scale. With future neutron sources, time resolved investigations will become more and more important. Dedicated sample environment and additional in situ measurement techniques all optimized for small sample volumes will be needed in the future.



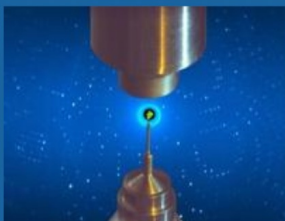
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Click on “timetable” – if you see the **Join** buttons you are logged in correctly:



Click to join zoom session



Joining a poster presentation:

Lunch Break 10:30 - 11:30

Poster Session

Block

🕒 13:00 - 15:00

Session

Poster Session

Contributions **38**

11:50 - 12:00

13:00 - 15:00

Coffee Break

[Join](#)

Protein structure, function and dynamics

19. Dynamical differences between polymorphs of lysozyme amyloid fibrils with different levels of cytotoxicity

👤 Dr Tatsuhito Matsuo (Université Grenoble ...)

🕒 09/06/2021, 13:00

[Protein structure, functi...](#) [Poster](#)

Amyloid fibrils are self-assembled protein filaments, the deposition of which in tissues causes amyloidosis. Recently, much attention has been paid to polymorphism, where proteins form various amyloid fibrils that differ in structure and show different levels of cytotoxicity depending on fibrillation conditions. Since intramolecular motions in the fibrils are

22. Dynamics of apolipoprotein B-100 assessed by elastic incoherent neutron scattering

👤 Aline Cisse (University Grenoble...)

🕒 09/06/2021, 13:00

[Protein structure, functi...](#) [Poster](#)

Protein dynamics is pivotal to fulfill protein function. Apolipoprotein B-100 is a giant monomeric protein with a fascinating dynamical history: it mediates the conversion from very low density lipoprotein (VLDL, ~50 nm) to low density lipoprotein (LDL, ~22 nm). As a key-player in the cholesterol transport system, the protein is intimately linked to the

84. Dynamics of IDP Histatin 5 probed by QENS and compared with simulation

👤 Eric Fagerberg (Lund University, Divis...)

🕒 09/06/2021, 13:00

[Protein structure, functi...](#) [Poster](#)

Intrinsically disordered proteins (IDPs) adopt a wide variety of conformations in solution, without a distinct equilibrium structure. Here, we investigate the dynamics of IDPs, using the antimicrobial saliva protein Histatin 5 as model. A suitable technique for this purpose is quasi-elastic neutron scattering (QENS), which through the incoherent

12. Effects of glassy matrices on the protein-like dynamical transition of PNIPAM

👤 Benedetta Petra Rosi (Department of PhysL...)

🕒 09/06/2021, 13:00

[Join](#)

join poster presentation



Meeting colleagues in “Wonder” during coffee breaks:

Use link in timetable to start “Wonder”:

15:00

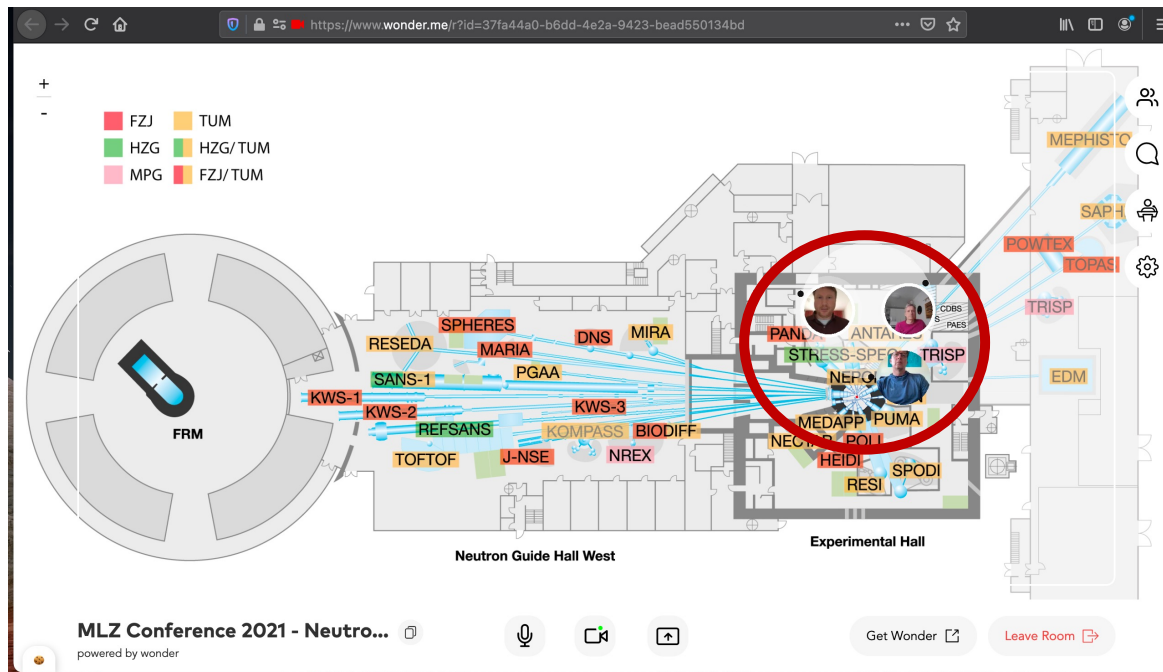
Coffee Break

Join

MLZ Conference 2021 - Neutro...
powered by wonder



Meeting colleagues in “Wonder” during coffee breaks:

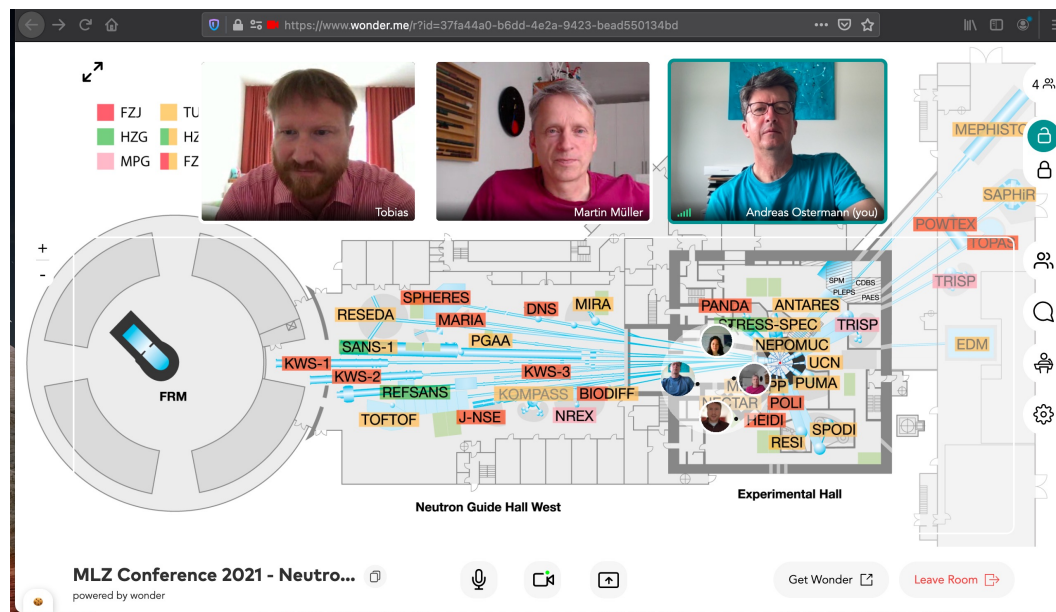


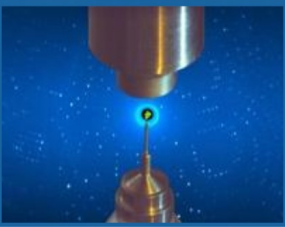
→ If avatars come close enough together (moving by mouse)
a conversation bubble is created...



Meeting colleagues in “Wonder” during coffee breaks:

→ ...and you can start a conversation

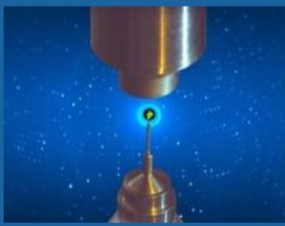




Hints for the discussion after each talk:

- Please write your question into the chat.
- The Chair-person will then read it to the presenter of the talk or will give you permission to read it yourself and clarify it further if needed.
- The questions will be answered in the order they appear in the chat.

We hope for a lively discussion after each talk!!



Conference photo:

We will take ZOOM screen-shots to put together a conference photo on Wednesday (10:30) and on Thursday (15:00) at the beginning of the corresponding coffee break respectively.

For this purpose we will ask you to switch on your camera.

Zoom background:

You can download a conference background picture for ZOOM via the link in our “technical details” at our homepage.

