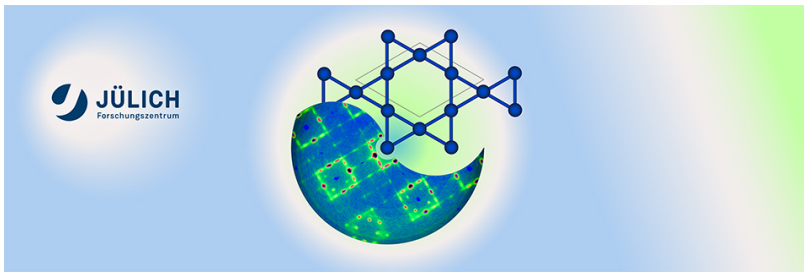

Beitrag ID: **107** Typ: **Invited talk**

Altermagnetism and neutron scattering

Donnerstag, 9. Oktober 2025 08:30 (30 Minuten)

Altermagnetism refers to a class of collinear compensated magnets at weak spin-orbit coupling that have spin-split electronic bands and chirality-split magnon bands both with a distinctive anisotropic pattern in momentum space. In this talk, I shall briefly summarize the state-of-the-art in the field and then describe how neutron scattering can be used to characterize the key signatures of altermagnetism in these materials.
In particular, I shall discuss altermagnetic domains, local order parameters and the power of polarized neutrons in probing chirality in the magnon bands.

Autor: MC CLARTY, Paul (Laboratoire Leon Brillouin, Universitè Paris-Saclay, CEA-Saclay)

Vortragende(r): MC CLARTY, Paul (Laboratoire Leon Brillouin, Universitè Paris-Saclay, CEA-Saclay)

Sitzung Einordnung: Models of quantum magnetic systems

Track Klassifizierung: Models of quantum magnetic systems