

Altermagnetism and neutron scattering

Tuesday, 3 June 2025 09:15 (30 minutes)

Altermagnetism usually refers to the set of collinear compensated magnets at weak spin-orbit coupling whose crystal symmetries do not enforce spin degeneracy. In these systems, one expects an anisotropic pattern of spin splitting in momentum space in the electronic bands. In the magnon bands, one expects a similar pattern of chirality splitting. This talk will be dedicated to explaining how to characterize altermagnets using neutrons. It turns out that neutron scattering is an almost ideal tool for this purpose.

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Session Classification: Invited speakers