

Magnetic Small-Angle Neutron Scattering: A Probe for Mesoscale Magnetism Analysis

Thursday, 27 April 2023 12:15 (30 minutes)

Small-angle neutron scattering (SANS) is a powerful technique for the investigation of magnetic materials, since it provides information from within the bulk of magnetic media and on the mesoscopic length scale, i.e., the size regime between a few nanometers and a few micrometers. In this talk we give an overview on recent theoretical and experimental work. This includes the study of the effect of the Dzyaloshinskii-Moriya interaction in microstructural-defect-rich materials, investigations of the spin structure of nanocomposites, and the usage of micromagnetic simulations for understanding the spin structure of nanoparticles beyond the single-domain form-factor concept.

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Session Classification: Large scale structures