



Contribution ID: 224

Type: **Poster**

【843】 Numerical Studies of Skyrmion Lattices

Wednesday 29 August 2018 18:42 (1 minute)

Magnetic skyrmions are topologically non-trivial spin textures, which hold big promise for their use in potential spintronic devices. We have performed real time and real space investigations on skyrmion lattices (SkL) in Cu_2OSeO_3 using Lorentz microscopy to study magnetic field induced melting of the SkL and its heat-induced rotation. We particularly highlight the methods we use for the analysis of these phenomena, i.e. the algorithms we have developed to routinely identify skyrmion positions in our data in order to study defects in the lattice, spatial and temporal correlation functions and local orientation maps.

Authors: Mr SCHÖNENBERGER, Thomas (EPFL); Dr HUANG, Ping (EPFL); Dr CANTONI, Marco (EPFL); Prof. RØNNOW, Henrik (EPFL)

Presenter: Mr SCHÖNENBERGER, Thomas (EPFL)

Session Classification: Poster Session

Track Classification: Magnetism and Spintronics at the Nanoscale