W2S Seminar
(Webinar series on Spintronics)

Atomic Ordering and Magnetic Structure of Heusler Based Spintronic Materials

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Via Zoom

Abstract

The properties of magnetic materials strongly depend upon the structure, symmetry, atomic ordering, and spin arrangement. These properties can be investigated using diffraction techniques such as X-ray and neutron diffraction. Among the various magnetic materials, the Heusler alloys have generated a great interest in the recent past due to their multifunctional properties and applications, especially in spintronic devices. In this talk, we will discuss the fundamental of the neutron diffraction technique and its role in understanding the atomic ordering and magnetic structure driven properties like the spin-valve effect and anomalous Hall effect together with the possibility of designing helicity-based memory device in Heusler based materials.

If interested to attend then please visit https://www.niser.ac.in/w2s-seminar/index.php