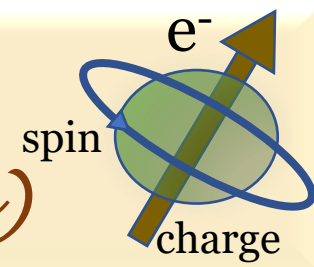




W2S Seminar

(Webinar series on Spintronics)



Emergent Phenomena Induced by Spin-Orbit Coupling in Non-centrosymmetric Materials

Speaker: **Prof. Ashis Kumar Nandy**

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National Institute of Science Education and
Research, Bhubaneswar, Odisha, India

Date and time:

21.01.2021 at

11:00 am

Via Zoom

Abstract

The stabilization of topological spin textures at room temperature and zero applied field is desirable for achieving fast devices in topological spintronics. An efficient electrical manipulation of magnetic order is another emergent phenomena in non-centrosymmetric magnets. The spin-orbit coupling in the presence of broken inversion symmetry is central for achieving such rich phenomena in materials, ranging from bulk to heterostructures. In this seminar, I will present some recent investigations on current induced switching in antiferromagnets and light atom based magnetic multilayers hosting zero-field and room temperature skyrmions.

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