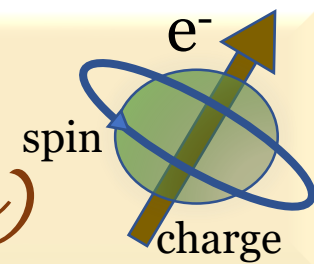




W2S Seminar

(Webinar series on Spintronics)



Spin transfer and spin-orbit torques in magnetic multilayers

Speaker:

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Date and time:
18.06.2020 at 11am

Via
Google meet

Abstract

Spin transfer torque (STT) and spin-orbit torque (SOT) allows manipulation of magnetization dynamics in magnetic multilayer heterostructures. John Slonczewski and L. Berger first predicted the spin transfer torque (STT) in the year 1996 while spin-orbit torque (SOT) is a relatively newer concept first reported in 2011. In this talk, I would summarize our recent works on STT and SOT. I will discuss the bias dependence of spin transfer torque in the MgO-based magnetic tunnel junction. Using STT, I will numerically demonstrate a novel microwave oscillator based on the periodic rotation of a skyrmion in a thin magnetic nanodisk. I will also discuss our recent experimental results of anti-damping SOT in Py/Ta system.

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