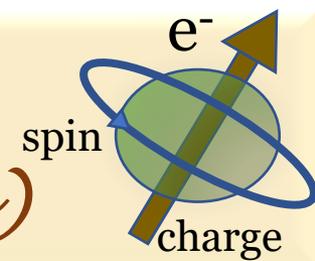




W2S Seminar

(Webinar series on Spintronics)



What do we learn from high-frequency magnetotransport in oxides?

Speaker:

Prof. Ramanathan Mahendiran
Department of Physics,
National University of Singapore (NUS), Singapore

Date and time:
29.10.2020 at
6.30 pm
Via
Zoom

Abstract

Although colossal magnetoresistance in Mn-perovskites has been extensively studied for 30 years and yet continue to be an active area of research, electrical or magnetoresistance response of these oxides to an alternating current (ac) has been hardly reported. Recent results from our lab suggest that not only the magnitude of magnetoresistance at room temperature can be dramatically increased with an ac current, the ac magnetotransport allows us to probe spin dynamics and electrically detect magnetic resonance (both paramagnetic and ferromagnetic) with a simple equipment. I will present our ongoing work covering manganites, YIG, double perovskites and in some Heusler alloys. Relevance of our findings to spin pumping, spin rectification and spin torque phenomena will be discussed.

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