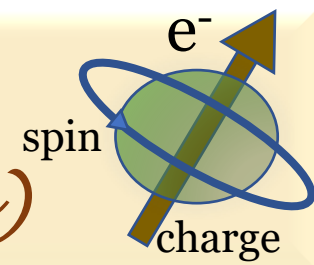




W2S Seminar

(Webinar series on Spintronics)



Electronic origin of magnetic phases in Heusler Alloys

Speaker:

Prof. Indranil Sarkar

Quantum Materials and Devices Unit
Institute of Nano Science and Technology

Date and time:

15.10.2020 at

6.30 pm

Via

Zoom

Abstract

Heusler alloys are the frontrunner materials for the spintronic applications. These alloys have an interesting mix of magnetic interactions whose origin lies in the interplay of electronic structure due to alloying. In this talk, I will present a pedagogical perspective on the role of electronic structure engineering in tuning magnetic interactions of Heusler alloys. Using our results an underlying mechanism for establishing mixed magnetic phase in this material class will be discussed. I will also present our recent results on electrochemically grown Heusler alloy films and their magnetic optic response. These results will be used to demonstrate the possibility of realizing Heusler alloy films using methods beyond physical vapor deposition techniques.

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