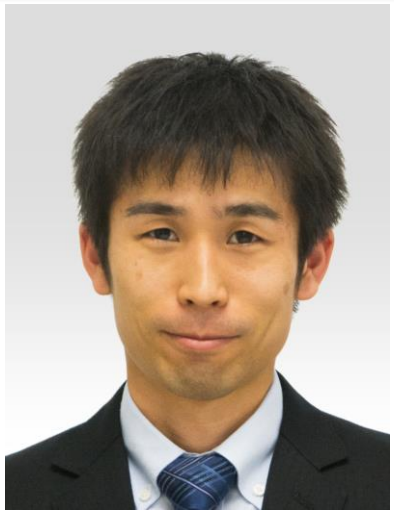
W2S Seminar
(Webinar series on Spintronics)



Mn-based Heusler alloys for Spintronics

Speaker:
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Date and time:
10.12.2020 at
6.30 pm
Via
Zoom

Abstract

Heusler alloys are a class of materials showing various physical properties, ferro-, ferri-, and antiferro-magnetism, magnetostriction, thermoelectric effect, half-metallic electronic structure and so on [1]. Among these, the half-metallic electronic structure is fascinating for spintronics research field. The inverse-Heusler alloy forms the Hg_2CuTi-type crystal structure which is different from the conventionally studied full-Heusler alloys, and some of them including Mn_2CoGa were theoretically predicted to be half-metals [2]. In this webinar, history of Heusler alloys for spintronics field will be briefly overviewed, and our recent results on Mn_2CoGa Heusler alloy films will be discussed.

[1] Eds. C. Felser and A. Hirohata, Heusler Alloys, Springer Series in Materials Science vol. 222 (Springer International Publishing Switzerland 2016). [2] G. D. Liu et al., Phys. Rev. B 77, 014424 (2011).

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