Latin-American Mebinar of Magnetism - ALMA Latin-American Magnetism Association



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Spintronics in topological insulators and 2D materials: interfacial phenomena

Spintronics is one of the vast prospects for applications of 2-dimensional (2D) and topological materials with large spin-orbit coupling (SOC). Exploitation of the huge potential in these materials will provide new opportunities of achieving control and manipulation of spin transport in hybrid structures. We have investigated interfacial phenomena in heterostructures with large SOC topological and 2D materials that could be incorporated into spintronic devices. In the first part of my talk, I will describe our recent results in systems combining topological insulators and ferromagnetic materials. In the second part, I will focus on hybrid structures of 2D materials. In both cases, the use of advanced characterization techniques, such as x-ray absorption spectroscopy in synchrotron radiation facilities, and laboratory-based spintorque ferromagnetic resonance, have provided unparallel information about magnetic proximity effects and spin phenomena at their interfaces.

Seminar will be via:

Zoom event <u>https://bit.ly/3vRxeWA</u>

Live stream - Youtube channel

https://youtu.be/Dy8KtPcYluk

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1:00 p.m. (México) 2:00 p.m. (Colombia) 2:00 p.m. (Peru) 3:00 p.m. (Cuba) 4:00 p.m. (Chile) 4:00 p.m. (Brasil) 4:00 p.m. (Argentina)



