

SEMINAR ANNOUNCEMENT

DEPARTMENT OF ELECTRICAL AND COMPUTER ENGINEERING
FACULTY OF ENGINEERING

Website: <https://cde.nus.edu.sg/ece>

Area: Microelectronic Technologies and Devices

Host: Dr. Dushyant Kumar

TOPIC	:	Spin Texture Obtained from Bilinear Magnetoelectric Resistance
SPEAKER	:	Ms. Liu Yakun Graduate Student, ECE Dept, NUS
DATE	:	Monday, 24 January 2022
TIME	:	11.00AM to 11.30AM
WEBINAR	:	Join Zoom Meeting https://nus-sg.zoom.us/j/82486588528?pwd=bFVjU20vSDI0TzhNU0U2WjkyMS8xQT09 Meeting ID: 824 8658 8528 Passcode: 831897

ABSTRACT

Probing the spin texture of the material is of critical importance for the wider application of Weyl semimetal. Currently, conventional techniques such as harmonic Hall measurements and spin-torque ferromagnetic resonance (ST-FMR) are utilized in order to measure spin-orbit torques in Weyl semimetals. However, these methods require an additional in-plane magnetized ferromagnetic layer from which the spin texture may be influenced. In this presentation, we will introduce a direct probing technique on a single layer Weyl semimetal, Bilinear Magnetoelectric Resistance (BMR).

BIOGRAPHY

Liu Yakun is currently pursuing a Ph.D. in the Department of Electrical and Computer Engineering, National University of Singapore. Her research interests include Weyl semimetals and their spintronics applications.

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