

# LOW-ENERGY ELECTRON INELASTIC MEAN FREE PATH FOR MONOLAYER GRAPHENE (continue).

**Speaker:** Nguyen Truong Thanh Hieu<sup>1,2</sup>

<sup>1</sup> Laboratory of Applied Physics, Advanced Institute of Materials Science, Ton Duc Thang University, Ho Chi Minh City, Vietnam

<sup>2</sup> Faculty of Applied Sciences, Ton Duc Thang University, Ho Chi Minh City, Vietnam

Email: [nguyentruongthanhhieu@tdtu.edu.vn](mailto:nguyentruongthanhhieu@tdtu.edu.vn)

## **Abstract:**

Graphene has been extensively studied. However, the electron inelastic mean free path (IMFP) for this two-dimensional material has never been reported. The IMFP is a fundamental quantity for surface analysis methods. The determination of the IMFP at low energies is a challenge. In this seminar, we present a joint theoretical and experimental study of low energy (0-100 eV) IMFP for graphene. We obtained a good agreement between calculated and measured results [Appl. Phys. Lett. 117, 033103 (2020)].