

**Title: Spintronics: From DC to Microwave**

**Speaker:**

Prof. C.K. Lo  
Associate Professor  
Department of Physics  
National Taiwan Normal University

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**Time:** 11:00 am

**Venue:** Room JG05, James Hsioung Lee Science Building, The University of Hong Kong

**Abstract:**

Devices, such as MR sensors and MRAM, employ the DC behaviors of electron's spin dependent transport. However for the applications at AC or even at microwave regime, the spintronic devices are still at their early stage of investigation.

In this talk magneto impedance of selected spin devices will be reviewed, and equivalent circuit model is used to explain the inverse magneto impedance hysteresis which has no correlation with magnetization reversal.

In order to characterize coupling in magnetic multilayers, a vector network analyzer-ferromagnetic resonance (VNA-FMR) spectrometer was built. The examination of unpattern MTJ and spin torque transfer oscillator using VNA-FMR is also proposed.

**Biography of the speaker:**

Chi Kuen Lo (C.K. Lo, 盧志權)

Prof. CK Lo received his Master degree from the Graduate Institute of Physics and Astronomy, National Central University, Taiwan in 1986 and his PhD from the School of Mathematical and Physical Sciences, University of Sussex, United Kingdom in 1994. He is now an associate professor in the Physics Dept., National Taiwan Normal Univ., Taipei, Taiwan and the Director of Laboratory for Spintronics in the Industrial Technology Research Institute, Taiwan.

**Organizer & contact person:** Dr. Philip Pong (e-mail: [ppong@eee.hku.hk](mailto:ppong@eee.hku.hk))