



University at Buffalo *The State University of New York*



# Department of Physics



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## ANNOUNCEMENT

### COLLOQUIUM

#### **“Skyrmions in Chiral Magnets”**

Presented by

**Dr. Jung Hoon Han**

**Department of Physics, Sungkyunkwan University**

#### **ABSTRACT**

The last few years have witnessed a near-explosive growth in our understanding of the Skyrmion phase formation in a certain class of ferromagnets that lacks inversion crystal symmetry. The emergent Dzyaloshinskii-Moriya interaction results in a spiral magnetic structure that turns into a Skyrmion crystal phase under a modest amount of magnetic field, in ways that we now understand quite well. A growing interest from the spintronics community is to view Skyrmions, armed with their topological stability, as possible carriers of information. In this talk I will review some of the advances in both experiment and theory regarding Skyrmion formation and its dynamics.

**DATE:** April 24, 2014

**TIME:** 3:30 p.m. (Refreshments at 3:15 p.m. in 245 Fronczak)

**PLACE:** NSC 205

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