Colloquium

Looking for Dark Matter, Here, There, and Everywhere

Wednesday

February 4

4 P.M.

Rm 118 NSH

Dr. Patrick Fox
Fermilab

The hunt for physics beyond the standard model at the LHC is in full swing. We already know of the existence of (at least) one new particle that is not in the standard model, dark matter. The existence of dark matter was first inferred from astrophysical observations and later confirmed by cosmological measurements. There is considerable ongoing effort to see the effects of dark matter, which makes up the majority of the matter in our galaxy, in a more terrestrial setting. I will outline what is, and what is not, known about dark matter, and explain how we may soon learn a lot more, as well as explaining how the conventional search methods can be complemented by searches at the LHC, and elsewhere.

Refreshments @
3:30 in 202 NSH

Notre Dame Science
Department of Physics