



SACRAMENTO STATE

Department of Physics & Astronomy Fall 2007

## *Physics Colloquium Series*

### *"Precision Physics at the Large Hadron Collider (LHC)"*

*A precise measurement of standard model processes will be crucial at the LHC to uncover new physics. One of the most critical processes is electro-weak gauge boson production. W and Z bosons will be produced copiously at the LHC, and their production cross section will be used to measure the machine luminosity. I will discuss sources of systematic errors in these measurements and work being done to improve the theoretical calculations.*

**Scott A. Yost**

*(Candidate for Faculty Position)*

**Physics Department, Princeton University**

**Tuesday, December 11, 2007**

**4:00-5:20 PM MND 1015**

**Open & Free to all Students, Faculty & Public**