

# THE DISCOVERY OF THE HIGGS BOSON

Prof. Colin Jessop, University of Notre Dame

Wednesday, August 22 ❖ 4:00 P.M. ❖ 118 NSH

Refreshments at 3:30 P.M. in 202 NSH

On July 4th the two collider experiments at CERN, CMS and ATLAS, simultaneously announced the observation of a new resonance with properties consistent with that of a Standard Model Higgs Boson. The Notre Dame CMS group is centrally involved in this discovery. I will describe what the Higgs Boson is and how it helps us to explain the origin of mass. I will then describe the experiment and present the observational evidence, highlighting some of the contributions of the Notre Dame group. The talk will conclude with a discussion of future research on the Higgs Boson and the puzzles that the observation itself give rise to.