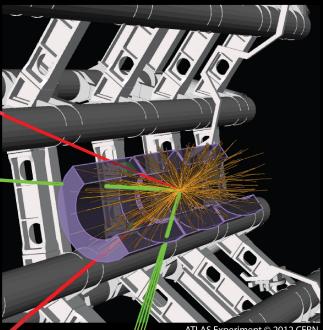
CHRIS QUIGG



The Higgs Boson for the Masses?



ATLAS Experiment © 2012 CERN

The Higgs boson has been the object of one of the greatest campaigns in the history of particle physics and a pop-culture icon. But what a Higgs boson, and what would we like it to do for us? What may we understand after the discovery that we didn't understand before? How would the world be different if nothing di job of the Higgs boson? We will explore these questions and more, tracing the development of the electroweak theory from notions of/symmetry, hidden symmetry, and gauge invariance through the discoveries of superconductivity and parity violation to the "standard model."

Chris Quigg is Senior Scientist at Fermilab. He graduated in physics from Yale; his Berkeley doctorate was supervised by J.D. Jackson. Quigg's research spans many topics in particle physics, from heavy quarks through cosmic neutrinos, with a special focus on electroweak symmetry breaking and supercollider physics. He received the 2011 J.J. Sakurai Prize of the American Physical Society. He served as chair of the APS Division of Particles and Fields and edited the Annual Review of Nuclear and Particle Science for a decade. He is a Fellow of the AAAS and of the APS. A new edition of his classic textbook on gauge theories has just appeared.

Wednesday, December 4, 2013 | 3:00 p.m.

Bldg. 402 | APS Auditorium **Argonne National Laboratory**