

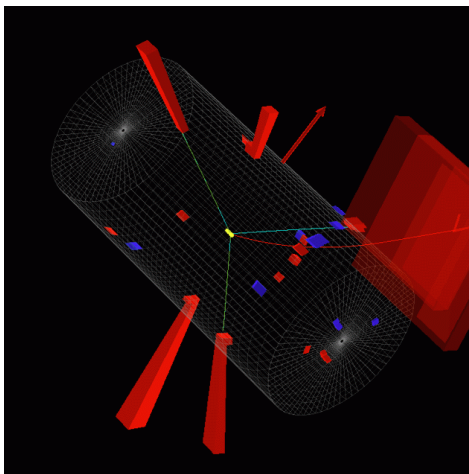
Journal Club

Yuri Gershtein
Rutgers University



Illuminating New Physics at the LHC with the Higgs Boson

The experimental data from the LHC strongly points toward the existence of a fundamental spin-0 particle, the Higgs boson, as a remnant of the broken Electroweak symmetry. The existence of such a fundamental particle poses a host of questions, the most immediate of which is why its mass is so small. A general program of searches for new phenomena that could stabilize the Higgs boson mass is underway at the LHC. In this talk I will describe some of the Run 1 searches with the Higgs boson in the final state using its di-photon decay mode and will make some projections for the upcoming Run 2.



Friday,
Feb. 20, 2015
4:00pm
301 Physical Sciences Bldg.