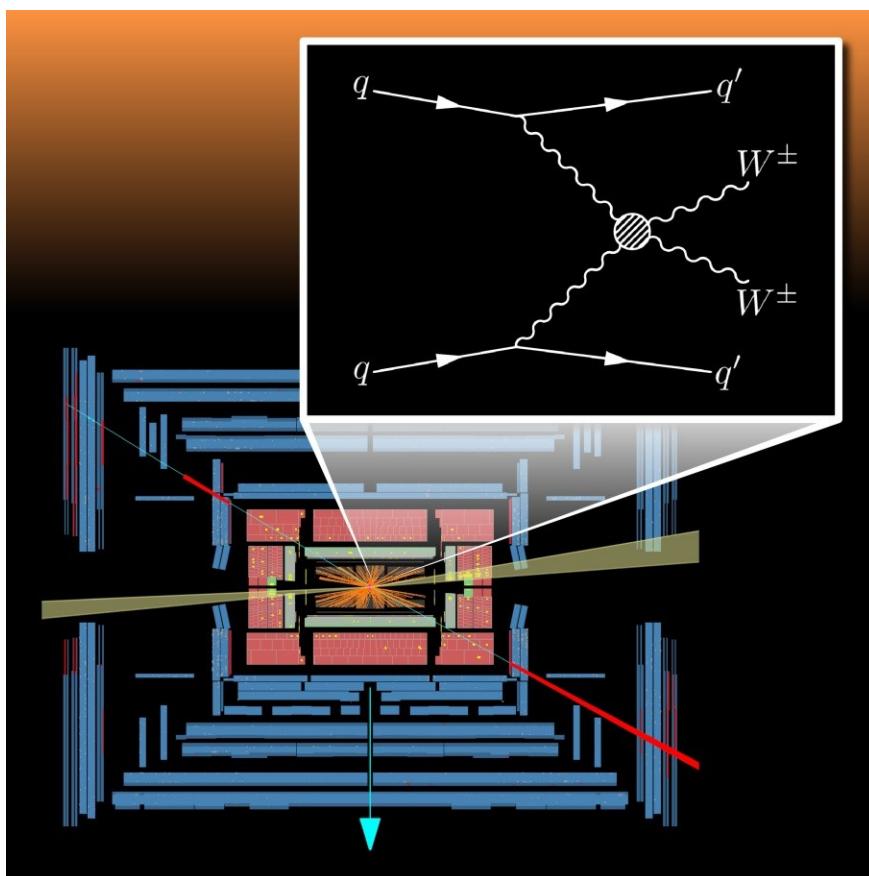




# Measuring Weak Boson Scattering with ATLAS.

Marc-Andre Pleier (Brookhaven National Laboratory)

Tuesday, 14 April 2015, 16:45 h, Auditorium



With the discovery of a Higgs boson at the LHC in July 2012, a new era has begun for High Energy Particle Physics, trying to characterize this new particle to the highest possible precision. Studying the role of this new boson in Weak Boson Scattering (WBS) is key to establish the Standard Model (SM) nature of Electroweak Symmetry Breaking: Without the SM Higgs boson, the scattering probability for weak bosons at large energies exceeds unity, making the measurement of WBS both a fundamental test of the SM and a window to new physics. The first evidence from ATLAS for WBS in the same-charge WW channel using pp data with a center-of-mass energy of 8 TeV will be presented and the current and expected sensitivity to uncover new phenomena will be discussed.

Coffee, tea and cookies will be served at 16.30

After the seminar there is a chance for private discussions with the speaker over wine and pretzels