

Student Session

Student: Donal Hill

Date and Time:

-Tuesday 18th August at 9.15

Subject : "Diphoton Signal and Efficiency Studies from Randall-Sundrum Graviton Simulation"

Biography-

Brief CV:

-Field of Study: Physics

-Education:

Queen's University Belfast

Completed 3rd year of undergraduate study, about to begin final master year in October 2010.

-Project:

CMS under the guidance of Conor Henderson for the past 8 weeks, studying Monte Carlo simulations of Randall-Sundrum graviton decay to the diphoton final state. My work has contributed to a larger body of work carried out by the Diphoton Resonances working group, which is part of the Exotica photons group in CMS. In particular I have focused on application of photon ID cuts to high transverse momentum photons, in an attempt to determine how effective such cuts are at removing fake jet photons from the desired diphoton signal.