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Signal/background interference in the diphoton Higgs signal at the LHC

Tuesday 7 May 2013 14:00 (15 minutes)

The Higgs mass determination from diphoton events at the LHC is affected by interference between the Higgs resonant and continuum background amplitudes with the same initial and final states. I will discuss this shift in the diphoton mass peak both for the leading order process and for the process with an additional central jet.

Author: Prof. MARTIN, Stephen (Northern Illinois University)

Presenter: Prof. MARTIN, Stephen (Northern Illinois University)

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