



Contribution ID: 132

Type: **Presentation**

Search for Dark Matter Produced in Association with a Higgs Boson Decaying to $b\bar{b}$ at $\sqrt{s} = 13$ TeV with the ATLAS Experiment

Tuesday, 1 August 2017 13:45 (15 minutes)

Several extensions of standard model predict dark matter production in association with a Higgs boson. In this talk the results of a search for such models in final states with large missing transverse momentum and a Higgs boson decaying to $b\bar{b}$ will be presented. The search is performed with the ATLAS detector using 36 fb⁻¹ of pp collisions at a center-of-mass energy of 13 TeV at the LHC. The results are interpreted in the context of a Dark Matter model and without extra model assumptions.

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Session Classification: Dark Matter

Track Classification: Dark Matter