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Type: Oral Presentation

Reconstruction of missing energy in event with two photons in ATLAS detector at the Large hadron collider.

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The missing transverse momentum in the ATLAS experiment is the momentum imbalance in the plane transverse to the beam axis. That is the resultant of the negative vectorial sum of the momenta of all particles that are involved in the proton-proton collision. A precise measurement of the missing transverse energy is essential for many physics studies at the LHC, such as Higgs boson measurements, as well as for searches of physics beyond the Standard Model. The reconstruction of missing energy is sensitive to the presence of additional collisions, usually referred to as pile-up. A new method is being used to reduce the effect of pileup events in ATLAS experiment. This presentation describes the performance of missing energy in respect to the improvement of vertex methods in ATLAS experiment.

Apply to be considered for a student award (Yes / No)?

Yes

Level for award (Hons, MSc, PhD, N/A)?

PhD

Main supervisor (name and email) and his / her institution

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**Would you like to
 submit a short paper
 for the Conference
 Proceedings (Yes / No)?**

Yes

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