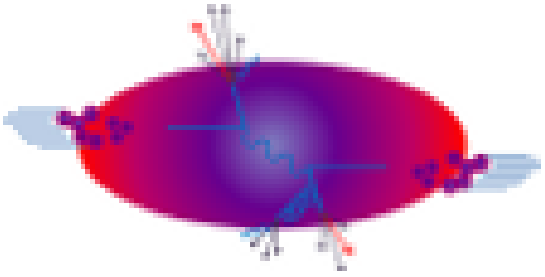

Contribution ID: **20** Type: **not specified**

In-situ measurements of the Jet Energy Scale in ATLAS

Monday 18 April 2011 14:55 (25 minutes)

Hadron jets are the most commonly observed objects in p-p collisions at the Large Hadron Collider at CERN. Because of this, they are part of the final state of almost any process, and are an important probe in searches for extensions of the Standard Model.

A precise knowledge of the energy calibration for jets is difficult to ascertain for a number of reasons, and is a necessary ingredient in the ATLAS experimental program. We will present in-situ techniques and results for the jet energy scale at ATLAS using recent collision data. We have demonstrated an understanding of the necessary jet energy corrections to within ˜ 4% in the central region of the calorimeter.

Presenter: SCHOUTEN, Doug (Simon Fraser University (SFU))

Session Classification: Jet Energy Scale and Resolution