

Timing performance of the ATLAS calorimeters

In my talk I will present an analysis of the timing performance in the ATLAS Tile and Liquid Argon calorimeters using $Z \rightarrow \mu\mu$ data, the results of which are used in the calibration of speed/beta measurements in the search for stable massive particles (SMPs). Several methods for weighting the beta measurements from individual calorimeter cells will be discussed, as well as methods for data reduction to retain a high efficiency while reducing background in the SMP signal region. Lastly, the accuracy of the estimated errors on weighted beta measurements is investigated.

Author: Mr SPANGENBERG, Martin (Master student)

Presenter: Mr SPANGENBERG, Martin (Master student)