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Performance of the ATLAS Tile Calorimeter in Run 2 and Electronics Upgrade for High Luminosity LHC

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The Tile Calorimeter (TileCal) is the hadronic calorimeter covering the central region of the ATLAS experiment at the Large Hadron Collider (LHC). This talk is divided into two parts. The first part will present studies of the TileCal energy scale using in-situ E/p measurements conducted during Run 2 of the LHC. The second part will discuss the plans and current results of the program to upgrade the TileCal front-end electronics for the High Luminosity LHC (HL-LHC) Phase-II upgrade, scheduled for the mid-2020s. Specifically, the performance of prototype electronics currently being tested in an extensive program of test beam studies will be presented.

Primary author: Mr OLSSON, Joakim (University of Chicago)

Co-author: MILLER, David (University of Chicago)

Presenter: Mr OLSSON, Joakim (University of Chicago)

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