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The ATLAS LAr calorimeter: an overview

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Summary

The various cryostats with the ATLAS LAr calorimeter are installed in the ATLAS cavern since several years. Following this, an effort to install and commission the front end read-out electronics (infrastructure, crates, boards) has been ongoing and is converging, in time for the cavern closure. After the mechanical installation of the LAr calorimeter 99.9% of the read-out channels were working, hence great care was taken to assure the same high level of quality after the installation of the read-out electronics.

Following cautious procedures and with continuous testing-campaigns of the electronics at each step of the installation advancement, the result is a fully commissioned calorimeter with its readout and a small number of non-functional channels.

The presentation will give a general overview of the installation of the ATLAS LAr calorimeter electronics and show results of the calibration runs that were taken continuously during the various phases of commissioning. Different problems observed and addressed will be discussed. It will describe noise studies that have been performed and shortly review the solutions implemented to reduce noise. The excellent stability of the calorimeter readout will be demonstrated by showing results from pedestal and pulse height studies.

Primary author: ALEKSA, Martin Aleksa (CERN)

Presenter: WILKENS, Henric (CERN)

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