
Contribution ID: **67** Type: **Oral presentation**

# Performance studies of Micromegas detectors in ATLAS with Run3 data

*Thursday 12 October 2023 11:40 (25 minutes)*

The Micromegas detectors are part of the New Small Wheel (NSW) system of the ATLAS experiment, the largest upgrade project of Phase-1. Together with sTGC detectors they provide trigger and tracking capability in the innermost station of the end-cap part of the Muon
spectrometer.
The Micromegas detector of ATLAS cover an active area of about 1280 mˆ2, has 1024 HV channels and 2.1 M readout channels, representing
the largest Micro-Pattern Gaseous Detector system ever built.
The two NSW have been installed in ATLAS in time for the start of Run3, went through a detailed commissioning phase during 2022 and are now
contributing to the ATLAS data taking.
In this presentation, after an introduction of the NSW, a series of latest
results regarding simulations, reconstruction, performance and first data
obtained with Run 3 will be reported.

## Is this abstract from experiment?

Yes

## Name of experiment and experimental site

ATLAS https://atlas.cern

## Is the speaker for that presentation defined?

No

## Details

The final speaker will be identified later by the Collabotation

## Internet talk

Maybe

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**Session Classification:** Parallel Session 4

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