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Upgrade of the ATLAS Muon Spectrometer for Phase II

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The HL-LHC upgraded of the LHC will be installed in the 2.5 year long shutdown, scheduled to start in 2024. Following this upgrade, the ATLAS and CMS experiments expect to collect 3,000 fb-1 each, which represent 90% of the total integrated luminosity obtained in the lifetime of the experiments. The detection of muons with precision and high efficiency is critical to the high luminosity physics scope of both experiments. This talk will cover the upgrade of the ATLAS muon spectrometer and the associated physics and performance motivation for the components of the upgrade.

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