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Upgrade of the ATLAS NSW

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The ATLAS detector has been at the frontier of high energy physics, gathering data from proton-proton collisions at the LHC for more than a decade. The instantaneous luminosity of the Large Hadron Collider at CERN will be increased up to a factor of five to seven with respect to the design value for the High Luminosity LHC. Several sub-systems of the ATLAS detector will be upgraded in order to cope with the higher particle rate and to further improve the excellent performance of ATLAS. The largest upgrade project for the ATLAS Muon System is the replacement of the present first station in the high-rapidity regions with the so-called New Small Wheels (NSWs) that have just been completed. In this talk we will discuss how the NSWs work, and their current status in terms of construction, integration, and testing.

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Please select: Experiment or Theory

Experiment

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