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The Precision Drift Chambers for the ATLAS Muon Spectrometer

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The ATLAS Muon Spectrometer will use drift tubes for precise measurement of muon tracks in the toroidal magnetic field. The physics goals require a precision on the sagitta measurement of $50 \mu\text{m}$. The planned operating conditions will be discussed, including signal conditioning and choice of gas for the high rate LHC environment. Recent measurements of the performance will be presented.