

ATLAS Measurement of the W-boson mass

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Precision measurements of electroweak observables offer a viable option for finding indications of new physics and also guidance for the next big discovery. In this talk, I will focus on the latest measurement of the W-boson mass recently published by ATLAS. The evaluation of the experimental systematic uncertainties, as well as the uncertainties due to the modelling of W-boson production and decay will be discussed. In addition, ancillary measurements of Drell-Yan processes which help to reduce the physics-modelling uncertainties will be presented. Special emphasis will be placed on the W- and Z-boson rapidity measurements and their impact on PDF uncertainties. Finally, the ATLAS result will be put in context with previous measurements at the Tevatron and LEP colliders.