

Constraining PDFs at the LHC: The W asymmetry

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The asymmetry in the rapidity distribution of positive and negative W Bosons can help to put constraints on the parton distribution functions (PDFs). It is directly related to differences in the momentum distribution of u and d quarks and will be used to improve our knowledge on the valence quark distributions at low x. This talk will present the prospects for the W asymmetry measurement with early data at the ATLAS detector. The analysis is carried out using full detector simulation and all systematical errors on the measurement are considered.

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