

Abstract Submitted
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A New Method for Determining the W Production Charge Asymmetry BOYOUNG HAN, University of Rochester, CDF COLLABORATION — We present a new analysis method which directly reconstructs the W charge asymmetry using $W^\pm \rightarrow e^\pm \nu$ decays at the Collider Detector at Fermilab. The W mass constrains the unknown longitudinal momentum of the neutrino from the W decay, leaving two possible W rapidity solutions. We determine the relative contributions of the two solutions for each event according to the V-A decay structure of the weak interactions, resulting in a determination of the W boson rapidity spectrum.

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