

Abstract Submitted
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Measurement of W Boson Helicity at ATLAS SUYOG SHRESTHA,
Iowa State University — The Standard Model predicts that the top quark almost
always decays via the V-A charged current interaction to a W boson and a b quark.
It also predicts the fractions of W bosons produced in each polarization state. A
measurement of W boson helicity fractions significantly different from the SM values
would be an indication of new physics. In this talk I will present results from a Monte
Carlo study with an integrated luminosity of 730 pb⁻¹ for the measurement of W
boson helicity at ATLAS.

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