

Abstract Submitted
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Measurement of W boson mass using the ratio method at D0

FENG GUO, SUNY–Stony Brook, D0 COLLABORATION — We measure the ratio of the W and Z boson mass using data collected in the D0 Run II at Fermilab Tevatron collider. Our method uses scaled transverse mass spectrum M_T of the Z boson as templates. The M_W/M_Z mass ratio is extracted by fitting to the templates. We will discuss the different corrections needed in this method and compare them with the standard method of W mass measurement. Preliminary results of the measured W boson mass and the uncertainties will be given.

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