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Measurement of the top quark mass in the lepton+jets channel at CDF using the template method JAHRED ADELMAN, University of Chicago, CDF COLLABORATION — We report an updated measurement of the top quark mass with the CDF Run II detector at Fermilab. The measurement uses the lepton+jets channel to identify top quark pairs produced in proton-antiproton collisions at $\sqrt{s} = 1.96\tilde{\text{TeV}}$. We reconstruct a top quark mass in each event by using kinematic constraints on the pair of top quarks and their decay products for double b-tag, one b-tag, and no b-tag samples. The top quark mass is extracted by comparing the reconstructed mass distributions to Monte Carlo templates using a likelihood fit.

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