

Abstract Submitted  
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**Measurement of the Top Quark Mass in All-Hadronic Decays using the Ideogram Method at CDF II** PETERI MEHTALA, University of Helsinki — We present a measurement of the top quark mass in the all-hadronic decay channel. The analysis is performed using  $310 \text{ pb}^{-1}$  of  $p\bar{p}$  collisions collected with the CDF II detector using a multi-jet trigger. The mass measurement is based on an event-by-event likelihood which depends on both the sample purity and the value of the top quark mass, using 90 possible jet-to-parton assignments in the six-jet final state. The joint likelihood of 290 selected events yields a value for the top mass of  $177.1 \pm 4.9(\text{stat.}) \pm 4.7(\text{syst.}) \text{ GeV}/c^2$ .

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