

Abstract Submitted  
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**Measurement of  $\Sigma_b$  Baryons with CDF II Detector** CONSTANTINO CALANCHA-PAREDES, JUAN PABLO FERNANDEZ, CIEMAT-Madrid60510, IGOR GORELOV, University of New Mexico, LUIS LABARGA, UAM-Madrid28049, FOR THE CDF COLLABORATION — In 2006 CDF Collaboration reported a first observation of bottom baryon states  $\Sigma_b$ . Based on  $\sim 5.0 \text{ fb}^{-1}$  of CDF data we present a high statistics measurements of strongly decaying b-baryons based on a data sample of fully reconstructed  $\Lambda_b$  decays collected by CDF II detector at  $\sqrt{s} = 1.96 \text{ TeV}$  in several trigger paths. The confirmation of the discovery and the first independent mass and widths measurements of all four states  $\Sigma_b^{(*)+}$  and  $\Sigma_b^{(*)-}$  will be presented.

Constantino Calancha-Paredes  
CIEMAT-Madrid60510

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