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## New results on bottom baryons with the CDF II detector

*Thursday 22 July 2010 17:00 (15 minutes)*

We present a high statistics study of  $\Sigma_b$  bottom baryon states based on a sample corresponding to 5.3 fb<sup>-1</sup> of fully reconstructed  $\Lambda_b$  decays collected by the CDF experiment. The first independent mass and widths measurements of all four states  $\Sigma_b^+$  and  $\Sigma_b^-$  are reported.

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**Session Classification:** 05 - Heavy Quarks Properties (experiment and theory)

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