

## **Measurment of the Lambda\_b polarization in the Lambda\_b -> Lambda J/psi decay**

*Thursday, 21 May 2015 10:20 (0:20)*

### **Abstract**

Predictions based on heavy-quark effective theory indicate for Lambda\_b baryons a large fraction of the transverse b-quark polarization to be retained after hadronization. We performed an angular analysis in the Lambda\_b-> Lambda(p+pi-) J/psi(mu+mu-) decay. We present a measurement of the Lambda\_b polarization using data from pp collisions at  $\sqrt{s} = 7$  TeV and 8 TeV collected with the CMS detector.

### **Title**

**Primary author(s) :** Mr. REYES ALMANZA, Rogelio (CINVESTAV)

**Co-author(s) :** HEREDIA DE LA CRUZ, Ivan (CINVESTAV-IPN); Dr. CASTILLA VALDEZ, Heriberto (Cinvestav)

**Presenter(s) :** Mr. REYES ALMANZA, Rogelio (CINVESTAV)