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Measurement of the single top quark production cross section in pp collisions with the ATLAS detector

Friday 19 July 2013 14:30 (20 minutes)

Measurements of the single top quark production cross sections in proton proton collisions with the ATLAS detector at the Large Hadron Collider are presented.

Measurements of single topquark production in the tand

Wtchannels

are shown and

determination of the CKM matrix element |Vtb| is discussed. We also discuss the separate measurement of the top and antitop quark cross section and the ratio. These measurements are sensitive to the parton distribution function in the proton.

In addition, the schannel production is explored and the results of a search for flavor changing neutral currents in the single top production is presented.

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Session Classification: Top and Electroweak Physics

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