

Forward-backward asymmetry of top quark in unparticle physics.

Wednesday 22 June 2011 11:40 (20 minutes)

The updated CDF measurement of the forward-backward asymmetry (FBA) in the top quark production $p\bar{p} \rightarrow t\bar{t}$ at Tevatron (with the CMS energy 1.96 TeV) shows a deviation of 2σ from the value predicted by the Standard QCD Model. We present calculation of this quantity in the scenario where colored unparticle physics contributes to the s -channel of the process, and obtain the regions in the plane of the unparticle parameters λ and dU which give the values of the FBA and of the total $t\bar{t}$ production cross section compatible with the present measurements.

Primary author: Prof. KIM, Choong Sun (Yonsei University)

Presenter: Prof. KIM, Choong Sun (Yonsei University)

Session Classification: Contributed Talks

Track Classification: LHC Physics and Tevatron Results