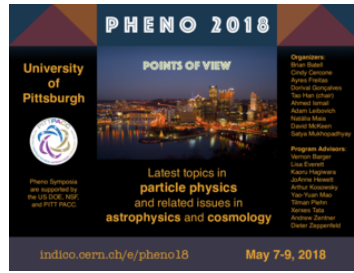


Phenomenology 2018 Symposium



Contribution ID: 550

Type: parallel talk

Recent CMS results on B hadrons and quarkonia: production and properties.

Monday 7 May 2018 16:30 (15 minutes)

The CMS experiment has a wide program on heavy flavor physics, covering production and decay properties of B hadrons and quarkonia, as well as searches and study of exotic hadrons and rare decays. In this talk, we present precise measurements of B hadron lifetimes, that are good as or better than previous measurements. Recent measurements of the Λ_b polarization and angular parameters in $\Lambda_b \rightarrow J/\psi \Lambda$ decays are also presented and compared to various theoretical predictions. On the other hand, measurements at 13 TeV of $\psi(nS)$ ($n=1,2$) and $\Upsilon(nS)$ ($n=1,2,3$) production cross sections are shown and compared with theoretical expectations as a function of transverse momentum and rapidity. Finally, we discuss the latest results from CMS on the search for exotic resonances (the controversial $X(5568)$) in the $B_s \pi^+$ mass spectrum.

Summary

Primary author: HEREDIA DE LA CRUZ, Ivan (Centro de Investigación y de Estudios Avanzados del IPN (MX))

Presenter: HEREDIA DE LA CRUZ, Ivan (Centro de Investigación y de Estudios Avanzados del IPN (MX))

Session Classification: Flavor I