Precision measurement of the D0 mass and of the natural line width of the D*+

Friday, 16 August 2013 11:30 (20 minutes)

We present the measurement of the mass of the D0 meson, the D(2010)+ natural line width, and the mass difference between the D(2010)+ and the D0 mesons using pure samples of $D^*(2010)$ + -> D0 pi+ decays. The measurements are based on a data sample corresponding to an integrated luminosity of about 477 fb-1, collected with the BaBar detector. Large improvements with respect to the existing measurements have been obtained for all the measured quantities.

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Track Classification: Quark and Lepton Flavor Physics