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Precision measurement of charmed meson properties with the BaBar detector

Tuesday 23 April 2013 14:00 (20 minutes)

We present the measurement of the mass of the D^0 meson, the $D(2010)^+$ natural line width, and the mass difference between the $D(2010)^+$ and the D^0 mesons using pure samples of $D^{*}(2010)^+ \rightarrow D^0 \pi^+$ 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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