

04 FLAVOUR PHYSICS

$D^0\bar{D}^0$ mixing and other recent charm results from BABAR

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收稿日期 2010-2-5 修回日期 网络版发布日期 2010-5-5 接受日期 2010-5-5

摘要

Studies in which BABAR data have shown evidence for mixing in the neutral charm meson system are presented. A new measurement of the lifetime difference parameter $y_{CP} = (1.16 \pm 0.22 \pm 0.18)\%$ is described. Results are also presented from a systematic study of DK and D^*K invariant mass distributions from a 470 fb^{-1} sample of asymmetric e^+e^- interactions recorded by the BABAR detector at the PEP-II storage rings. A new charmed-strange meson has been observed with mass $[3044 \pm 8_{\text{stat}} (+30 -5)_{\text{syst}}] \text{ MeV}/c^2$ and width $[239 \pm 35_{\text{stat}} (+46 -42)_{\text{syst}}] \text{ MeV}/c^2$.

关键词 [keyword, mixing, oscillations, charm, meson, spectroscopy](#)

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