

DIS 2015 - XXIII. International Workshop on Deep-Inelastic Scattering and Related Subjects

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XXIII International Workshop on
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Recent BaBar results on CP violation in B-meson decays

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We present a selection of recent results on CP violation effects measured with a sample of about 471 million B-Bbar pairs collected by the BaBar detector.

They include a measurement of CP and T asymmetries in the B₀-B₀bar mixing process by using inclusive dilepton samples, and a Dalitz plot analysis of the charmless decay B⁺ → K^s π⁺ π⁰, where the first evidence of direct CP violation in the B⁺ → K^{*} π⁰ decay has been seen.

We also present a measurement of the parameter sin2β of the Unitarity Triangle in B₀ → D₀ h₀ decays, which makes use of the combined data sets of the BaBar and Belle experiments.

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