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Measurement of the CP-violating phase $\phi_s^{J/\psi\phi}$ using the flavor-tagged decay $B_s^0 \to J/\psi\phi$ in 8 fb^{-1} of $p\overline{p}$ collisions

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Abstract content

We report an updated measurement of the CP-violating phase, $\phi_s^{J/\psi\phi}$, and the decay-width difference for the two mass eigenstates, $\Delta\Gamma_s$, from the flavor-tagged decay $B_s^0 \to J/\psi\phi$. The data sample corresponds to an integrated luminosity of 8.0 fb^{-1} accumulated with the D0 detector using $p\overline{p}$ collisions at $\sqrt{s} = 1.96$ TeV produced at the Fermilab Tevatron collider. The 68% confidence level intervals, including systematic uncertainties, are $\Delta\Gamma_s = 0.163 + 0.065 - 0.064ps^{-1}$ and $\phi_s^{J/\psi\phi} = -0.55 + 0.38 - 0.36$. The p-value for the Standard Model point is 29.8%.

Summary

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