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Muon opposite side tagging in $B_s \to J/\psi + \phi$

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Complex phase in the CKM matrix describing quark mixing causes CP violation and can be studied in the decay $B^0_s \to J/\psi + \phi$. The determination of the initial flavour of neutral B mesons can be inferred using information from the B meson containing other pair-produced b-quark, reffered as opposite-side tagging. To study and calibrate the opposite-side tagging method, decays $B^\pm \to J/\psi + K^\pm$ are used. This presentation will talk about muon-based tagging.

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