

$B \rightarrow J/\psi \phi$ studies for HL/HE-LHC with ATLAS

Monday, 30 October 2017 19:12 (1 minute)

Real data as well as Monte Carlo simulations are used to study the decay of $B_s^0 \rightarrow J/\psi \phi$ in order to measure the CP violating mixing phase and the width difference between the B_s^0 eigenstates. The increased sensitivity is expected mainly due to the improved decay time resolution obtained with the ATLAS upgraded IBL and ITk inner tracking detector

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Session Classification: Poster session