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Measurements of CP violation in $B_{d/s}^0$ mixing through $B \rightarrow J/\Psi X$ decays

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B mesons provides an ideal laboratory for measurements of CP violation and searches for CPV beyond the Standard Model. Recent measurements of the mixing phases of the B_s and B_d mesons,

ϕ_s and

$\sin 2\beta$, using decays to $J\Psi X$ final states are presented.

In view of

future improved measurements, a good understanding of pollution from sub-leading penguin topologies in these decays is needed. Those can be probed using suppressed decays like $B_s \rightarrow J/\Psi K_S$ and $B_s \rightarrow J/\Psi K^*$. Recent results on these decay modes are presented.

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