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Probing CP violation in B_0 s \rightarrow $K_0^* \pi \pi$ decays

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The three-body charmless hadronic decay B_0 s \rightarrow $K_0^* \pi \pi$ provides a number of novel possibilities to search for CP violation effects and test the Standard Model of particle physics. These include model-dependent and model-independent comparisons of the Dalitz plot distributions of the decay-time-integrated $K_0^* \pi^+ \pi^-$ and $K_0^* \pi^+ \pi^+$ final states, decay-time-dependent (but without initial state flavour tagging) fits to the Dalitz plot distributions, as well as full decay-time-dependent and flavour tagged fits. The relative sensitivities of these different approaches are investigated.

Summary

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