

CP violation in three body decays

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I discuss the potential of measuring CP violation in three body decays, paying particular attention to the different possible origins of the “strong” CP-even phase. This phase can be obtained from the propagation of intermediate state particles - either when diagrams with different intermediate particles interfere, or when the intermediate state is off-shell by a different amount. I will elaborate mainly on the second case here which has not yet received much attention in the literature. After analysing a simple toy model I apply our findings to a specific example, namely neutralino decay in the MSSM.

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