



Contribution ID: 464

Type: **not specified**

A new CP violating observable for the LHC

Thursday, 1 September 2011 11:45 (25 minutes)

We study a new type of CP violating observable that arises in three body decays that are dominated by an intermediate resonance. If two interfering diagrams exist with different orderings of final state particles, the required CP-even arises due to the different virtualities of the resonance in each of the two diagrams. This method can be an important tool for accessing new CP phases at the LHC and future colliders.

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Session Classification: Parallel Session 8