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A New CP Violating Observable for the LHC

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We study a new type of CP violating observable that arises in three body decays. We consider decays that are dominated by an intermediate resonance that can go on shell. In many cases, the decay can occur via two different orderings. The required CP-even phase arises due to the different virtualities of the resonance in the two diagrams corresponding to these orderings. This method can be an important tool for accessing new CP phases at the LHC and future colliders.

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