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FSI in 3-body decay: challenges and future

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Three-body hadronic decays of B and D mesons are a superb laboratory for studying Charge-Parity (CP) violation and hadronic Final states Interactions. The gigantic samples of B and D decays collected by the LHCb (and more to come from others) experiments motivated theoretical efforts in the past decade towards building models that are based on more solid grounds. In this talk I will preesent an overview of these models In particular, interesting results one obtain for $B^+ \to \pi^-\pi^+\pi^+$ with novel mechanisms of the CP asymmetries pattern observed in the Dalitz plot.

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