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Observation of several sources of CP violation in B+ -> pi+pi+pi- decays

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Very large CP asymmetries in decays of B mesons to final states containing three charged particles have been observed and attracted much interest. We present new results from a Dalitz plot analysis of B->3pi using a data sample corresponding to an integrated luminosity of 3 fb-1 of pp collisions recorded by the LHCb detector. Significant CP violation from different sources (S-wave, D-wave,S-P wave interference etc.) are established and may shed new light on understanding the underlying dynamics for CP violation in hadronic B decays.

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