

Dalitz Plot Analysis of B Decays

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We present a Dalitz-plot analysis of charmless $B^{+/-}$ decays to the final state $\pi^+\pi^+\pi^-$ using a sample of $(465 \pm 5) \times 10^6$ $B\bar{B}$ pairs collected by the BABAR experiment at $\sqrt{s} = 10.58$ GeV. We measure the branching fractions and direct CP asymmetries of $B^{+/-}$ to $\rho^0\pi^{+/-}$, $f_2(1270)\pi^{+/-}$ and non-resonant $\pi^+\pi^-\pi^{+/-}$.

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