

High Energy Physics - Experiment

Study of the $D^0 \rightarrow \pi^+ \pi^- \pi^0$ decay at BABAR

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The Dalitz-plot of the Decay $D^0 \rightarrow \pi^+ \pi^- \pi^0$ measured by the BABAR Collaboration shows the structure of a final state having quantum numbers $I G J^{PC} = 0^- 0^{--}$. An isospin analysis of the Dalitz-plot finds that the $I = 0$ contribution is about 96%. This high $I = 0$ contribution is unexpected because the weak interaction violates the isospin.

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