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Precision Measurement of B(B0->D*-pi+pi-pi+) at BABAR

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Using a sample of $(470.9\pm2.8)\times10^6$ B meson pairs, we measure the decay branching fraction $\mathcal{B}(B^0\to D^{*-}\pi^+\pi^-\pi^+)=(7.26\pm0.11\pm0.11\pm0.11)$ where the first uncertainty is statistical and the second uncertainty is systematic. The measurement is 2.4 times more precise than the current world average value. This branching fraction includes singly-charmed B^0 decays only and is obtained by removing the dominant doubly-charmed B^0 decay contribution from the contaminated branching fraction of $(7.37\pm0.11\pm0.31)\cdot10^{-3}$.

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Classification de thématique: Experiment