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Monte Carlo Free Estimation of the B^+ Meson Lifetime Using a Hadronic Decay Mode AZIZUR RAHAMAN, University of Oxford, CDF COLLABORATION — We present a new measurement of the B^+ meson lifetime from exclusive decays ($B^+ \rightarrow \bar{D}^0\pi^+$), selected using CDF's hadronic B trigger from about 800 pb^{-1} of data from Run II of the Tevatron collider. The bias induced by this trigger is corrected on an event-per-event basis, using observed kinematic event variables, with no dependence on Monte Carlo simulation. The analysis is complementary to CDF's previously published analyses, which uses an efficiency curve obtained from simulation, and has independent systematic uncertainties.

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