

Precision measurement of B_s lifetime in the channel $B_s \rightarrow \mu D_s X$ with the D0 data

Tuesday, 31 May 2011 12:20 (20 minutes)

The Heavy Quark Expansion theory predicts that the ratio among the B^0 and B_s lifetime to be very close to 1. The B^0 lifetime has been measured with a precision around 1%, so having a precision measurement of B_s lifetime can be a test of this framework. I will describe a method to measure the B_s lifetime using the semileptonic channel $B_s^0 \rightarrow D_s^+ \mu X$ with data collected by the D0 collaboration.

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Session Classification: Session 2

Track Classification: Energy Frontier