

Measurement of Bc mass and lifetime at LHCb

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The Bc mass and lifetime measurements using the exclusive decay $B_c \rightarrow J/\psi \pi$ at the LHCb experiment were studied. About 310 signal events are expected for a data set which corresponds to an integrated luminosity of 1 fb^{-1} , with a B/S ratio around 2. Based on these data, the Bc mass and lifetime can be measured with expected statistical errors below $2 \text{ MeV}/c^2$ and 30 fs, respectively.

Summary

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Session Classification: Heavy Flavours