

## Measurement of Bc mass and lifetime at LHCb

*Wednesday, April 29, 2009 10:30 AM (15 minutes)*

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  $1 \text{ fb}^{-1}$ , 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.

**Primary author:** HE, Jibo (Laboratoire de l'Accélérateur Linéaire (LAL))

**Presenter:** HE, Jibo (Laboratoire de l'Accélérateur Linéaire (LAL))

**Session Classification:** Heavy Flavours