**High Energy Physics - Experiment** 

## Measurement of Bc Mass and Lifetime at LHCb

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The \$B\_c^pm\$ mass and lifetime measurements using the decay \$B\_c^\pm \to J/psi \pi^\pm\$ 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 equal to 2. Based on these data, the \$B\_c^pm\$ mass and lifetime can be measured with expected statistical errors below 2 MeV/\$c^2\$ and 30 fs, respectively.

5 pages, 2 figures, Proceedings of the XVII International Workshop on Comments: Deep-Inelastic Scattering and Related Topics, April 26-30, 2009 Madrid, Spain Subjects: High Energy Physics - Experiment (hep-ex) DOI: 10.3360/dis.2009.147 Report number: LHCb-CONF-2009-013 arXiv:1001.5370v1 [hep-ex] Cite as:

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