

XX International Workshop on Deep-Inelastic Scattering and Related Subjects



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Bc + b baryons studies at LHCb

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During the year 2011, the LHCb experiment has accumulated 1 fb⁻¹ of data in proton-proton collisions data at 7 TeV, collecting a sample rich in both Bc mesons and b baryons. Studies of these states provide a wealth of new measurements as well as probes of QCD theory predictions. We will present studies of Bc production together with precision measurements of both the mass and lifetime, in Bc → J/ψ π, J/ψ μ ν and studies of the Bc → J/ψ 3π mode. Measurements of the properties of Ξ_b and Ω_b baryons including the mass and studies of excited B hadron states will also be presented.

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Session Classification: Heavy flavours

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