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## Heavy flavour production and spectroscopy at the LHC

With large data samples collected by LHC experiments at several energies, Quantum Chromodynamics can be tested in detail with heavy flavour production. Moreover huge samples of data allow to challenge our understanding of hadrons in detailed studies of systems not being available before. In this talk we will review recent results on heavy quark hadron production at LHC. Besides production we will also discuss recent spectroscopy results with check for the existence of tetraquark state decaying to  $B_s\pi^+$  claimed by the D0 collaboration or model independent confirmation of pentaquark states.

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