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## Measurements of beauty quark production at CMS

*Tuesday 23 April 2013 09:50 (20 minutes)*

The large production cross-sections at LHC energies, combined with an adapted trigger strategy has enabled CMS to collect large data samples to perform detailed studies of Beauty hadron properties. In this talk we will report from our latest results, including  $\Lambda_b$  production cross-section and lifetime measurements,  $b\bar{b}$  cross-section differential in the opening angles  $\Delta\Phi$  and  $\Delta R$  and on branching ratios of the rarely studied  $B_c$  meson. The  $\Lambda_b$  production cross-section versus  $p_T$  is also compared to our previously measured  $p_T$  spectra of  $B^0$ ,  $B^+$  and  $B_c$  mesons. This talk might also include new results on B hadron production, if approved in time.

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