

## **Production of beauty and quarkonia in ATLAS: transverse momenta spectra, prompt and non-prompt production, spectroscopy**

*Tuesday, 4 December 2012 16:00 (30 minutes)*

Measurements of quarkonia and open heavy-flavor states at the LHC can often probe the available predictions. ATLAS has measured the production cross section of prompt and non-prompt J/Psi as well as Y(1,2,3 S), together with the inclusive production of b-flavored hadrons. The kinematical ranges covered by these analyses probes higher transverse momenta than previous studies. The results are in some cases marginally compatible with the latest available predictions. Excited B-hadrons and quarkonia states have also been detected with the ATLAS detector, further expanding the investigation in the field of b-hadron and onia spectroscopy. The latest results, which include the observation of new particles, will be illustrated together with the perspectives for future analyses.

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