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## Recent results on B-Physics and Quarkonia with the ATLAS detector

*Tuesday 12 April 2016 15:10 (15 minutes)*

This talk will report on four measurements recently completed by ATLAS:

- (a) the decay of  $\Lambda_b$  into  $\Lambda$  and  $\psi(2S)$ , observed for the first time and compared to the decay into  $\Lambda$  and  $J/\psi$ ;
- (b) the decay of  $B_c$  into  $J/\psi D_s$  and  $J/\psi D_s^*$ , including the first polarisation measurement for the latter channel;
- (c) the measurement of the ratio of the fragmentation fraction  $f_s/f_d$ , which complements a previous measurement of LHCb over a different range of  $p_T$  and  $y$ ;
- (d)  $B^+$  mass reconstruction in the decay of  $B^+$  to  $J/\psi$  and  $K^+$  at ATLAS at 13 TeV pp collisions;
- (e) Measurement of the differential non-prompt  $J/\psi$  production fraction at 13 TeV

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**Session Classification:** WG4 Heavy Flavours

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