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## Measurement of the differential inclusive $B^+$ hadron cross sections in pp collisions at $\sqrt{s}=13$ TeV (Article) [\(Open Access\)](#)

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### Abstract

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The differential cross sections for inclusive production of  $B^+$  hadrons are measured as a function of the  $B^+$  transverse momentum  $p_T^{B^+}$  and rapidity  $y^{B^+}$  in pp collisions at a centre-of-mass energy of 13 TeV, using data collected by the CMS experiment that correspond to an integrated luminosity of 48.1 pb<sup>-1</sup>. The measurement uses the exclusive decay channel  $B^+ \rightarrow J/\psi K^+$ , with  $J/\psi$  mesons that decay to a pair of muons. The results show a reasonable agreement with theoretical calculations within the uncertainties. © 2017 The Author(s)

### Author keywords

B-physics CMS Physics

### Funding details

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#### Funding text

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