

Document details

[< Back to results](#) | 1 of 1[Export](#) [Download](#) [Print](#) [E-mail](#) [Save to PDF](#) [Add to List](#) [More... >](#)[Full Text](#) [View at Publisher](#)Nuclear Physics A
Volume 982, February 2019, Pages 186-188Fragmentation of J/ψ in jets in pp collisions at $s=5.02\text{TeV}$ (Article) [\(Open Access\)](#)

Diab, B., CMS collaboration

Laboratoire Leprince-Ringuet, École polytechnique, Palaiseau Cedex, 91128, France

Abstract

[View references \(12\)](#)

The fragmentation of jets containing a J/ψ meson is studied in $s=5.02\text{TeV}$ pp data using an integrated luminosity of $L=27.39\text{pb}^{-1}$. The fraction of the jet transverse momentum $p_{T,\text{jet}}$ carried by the J/ψ is measured for prompt J/ψ and J/ψ coming from b hadron decays, named nonprompt. Whereas the fragmentation function of nonprompt J/ψ is well-modeled by simulations using a Monte Carlo generator, the prompt J/ψ are found to be accompanied by a larger level of jet activity. The fraction of J/ψ mesons that are produced inside a jet is also reported, and found to be larger in data than in simulation, for both prompt and nonprompt J/ψ . © 2018

SciVal Topic Prominence [i](#)

Topic: collisions | production | nuclear modification

Prominence percentile: 91.688 [i](#)

Author keywords

[CMS](#) [J/ψ](#) [Jets](#) [pp collisions](#)ISSN: 03759474
CODEN: NUPAB
Source Type: Journal
Original language: EnglishDOI: 10.1016/j.nuclphysa.2018.09.049
Document Type: Article
Publisher: Elsevier B.V.

References (12)

[View in search results format >](#) All [Export](#) [Print](#) [E-mail](#) [Save to PDF](#) [Create bibliography](#)

- 1 Andronic, A., Arleo, F., Araldi, R., Beraudo, A., Bruna, E., Caffarri, D., del Valle, Z.C., (...), Zhuang, P.
Heavy-flavour and quarkonium production in the LHC era: from proton–proton to heavy-ion collisions [\(Open Access\)](#)

(2016) *European Physical Journal C*, 76 (3), art. no. 107. Cited 166 times.
<http://link.springer-ny.com/link/service/journals/10052/index.htm>
doi: 10.1140/epjc/s10052-015-3819-5

[View at Publisher](#)Metrics [i](#)

0 Citations in Scopus
0 Field-Weighted Citation Impact

PlumX Metrics [v](#)

Usage, Captures, Mentions, Social Media and Citations beyond Scopus.

Cited by 0 documents

Inform me when this document is cited in Scopus:

[Set citation alert >](#)[Set citation feed >](#)

Related documents

Very forward inclusive jet cross sections in p+Pb collisions at $\sqrt{s_{NN}}=5.02\text{TeV}$ at CMSVan De Klundert, M.H.F. (2017) *Proceedings of Science*

Very forward energy distributions and jet production observed with CASTOR in CMS

Van Spilbeeck, A. (2016) *Proceedings of Science*Inclusive Jet measurements at collision energies $\sqrt{s} = 2.76, 7, 8$ and 13 TeV from CMSGunnellini, P. (2016) *Proceedings of Science*

View all related documents based on references

Find more related documents in Scopus based on:

[Authors >](#) [Keywords >](#)