

INSPIRE and data

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on behalf of the INSPIRE collaboration

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Today

Information

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Measurement of the Strange B Meson Production Cross Section with J/Psi phi Decays in pp Collisions at $\sqrt{s} = 7$ TeV.

CMS Collaboration ([Serguei Chatrchyan et al.](#)) [Show all 2194 authors.](#)

Jun 2011
mult. pp.

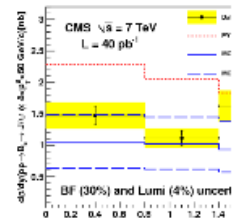
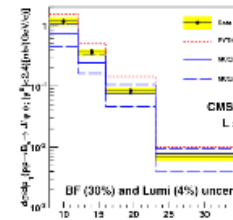
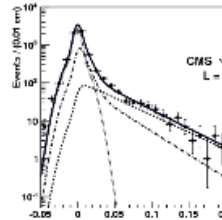
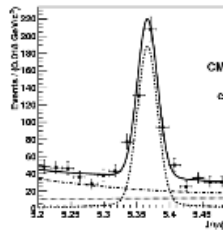
Phys.Rev. D84 (2011) 052008
CMS-BPH-10-013,CERN-PH-EP-2011-063
e-Print: [arXiv:1106.4048 \[hep-ex\]](#)

Abstract: The B^0_s differential production cross section is measured as functions of the transverse momentum and rapidity in pp collisions at $\sqrt{s} = 7$ TeV, using the J/Psi phi decay, and compared with predictions based on perturbative QCD calculations at next-to-leading order. The data sample, collected by the CMS experiment at the LHC, corresponds to an integrated luminosity of 40 inverse picobarns. The B^0_s is reconstructed from the decays J/Psi to an oppositely charged muon pair and phi to $K^+ K^-$. The integrated B^0_s cross section times B^0_s to J/Psi phi branching fraction in the range $8 < p_t(B) < 50$ GeV/c and $|y(b)| < 2.4$ is measured to be $6.9 \pm 0.6 \pm 0.6$ nb, where the first uncertainty is statistical and the second is systematic.

Keyword(s): [INSPIRE: B/s0: hadroproduction](#) | [p p: interaction](#) | [B/s0: hadronic decay](#) | [J/psi\(3100\): leptonic decay](#) | [Phi\(1020\): hadronic decay](#) | [differential cross section: transverse momentum](#) | [rapidity dependence](#) | [quantum chromodynamics: perturbation theory](#) | [higher-order: 1](#) | [channel cross section: branching ratio: measured](#) | [CERN LHC Coll](#) | [experimental results](#) | [CMS](#) | [B/s0 --> J/psi\(3100\) Phi\(1020\)](#) | [J/psi\(3100\) --> muon+ muon-](#) | [Phi\(1020\) --> K+ K-](#) | [7000 GeV-cms](#)

Keyword(s): INSPIRE: [B/s0: hadroproduction](#) | [p p: interaction](#) | [B/s0: hadronic decay](#) | [J/psi\(3100\): leptonic decay](#) | [Phi\(1020\): hadronic decay](#) | [differential cross section: transverse momentum](#) | [rapidity dependence](#) | [quantum chromodynamics: perturbation theory](#) | [higher-order: 1](#) | [channel cross section: branching ratio: measured](#) | [CERN LHC Coll](#) | [experimental results](#) | [CMS](#) | [B/s0 --> J/psi\(3100\) Phi\(1020\)](#) | [J/psi\(3100\) --> muon+ muon-](#) | [Phi\(1020\) --> K+ K-](#) | [7000 GeV-cms](#)

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CHATRCHYAN 2011 — Measurement of the Strange B Meson Production Cross Section with J/Psi phi Decays in pp Collisions at $\sqrt{s} = 7$ TeV

Experiment: [CERN-LHC-CMS \(CMS\)](#)

Published in [PR D84,052008](#)

Preprinted as [CERN-PH-EP-2011-063](#)

Archived as: [ARXIV:1106.4048](#)

Record in: [INSPIRE](#)

CERN-LHC. Measurement of the total cross section and differential cross sections as functions of transverse momentum and rapidity for B/S strange mesons produced in proton-proton collisions at a centre-of-mass energy of 7 TeV. The cross sections are given uncorrected for the B/S $\langle J/\Psi \text{ PHI} \rangle$ decay using $J/\Psi \langle \text{MU} + \text{MU} \rangle$ and $\text{PHI} \langle \text{K} + \text{K} \rangle$ branching fractions of (5.93 ± 0.06) PCT

In a couple of weeks...

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arXiv:1106.4048

Measurement of the Strange B Meson Production Cross Section with J/Psi phi Decays in pp Collisions at $\sqrt{s} = 7$ TeV

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Measurement of the Strange B Meson Production Cross Section with J/Psi phi Decays in pp Collisions at sqrt(s) = 7 TeV - [Chatrchyan, Serguei](#) *et al*

CERN-LHC. Measurement of the total cross section and differential cross sections as functions of transverse momentum and rapidity for B/S strange mesons produced in proton-proton collisions at a centre-of-mass energy of 7 TeV. The cross sections are given uncorrected for the B/S <J/PSI PHI> decay using J/PSI <MU+ MU-> and PHI<K+ K-> branching fractions of (5.93+0.06) PCT and (48+0.5) PCT respectively. The data sample has an integrated luminosity of 40 pb-1 with a 4 PCT uncertainty..

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Table 1

as: plain text, AIDA, PyROOT, YODA, ROOT, mpl or jhepwork

Total integrated B/S cross section times the branching fraction to J/PSI PHI in the given kinematic range
Location: P 5(C=PREPRINT)

| |
|----------------------------------|
| RE : P P --> B/S < J/PSI PHI > X |
|----------------------------------|

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Observation of Long-Range Near-Side Angular Correlations in Proton-Proton Collisions at the LHC.

CMS Collaboration ([Vardan Khachatryan et al.](#)) [Show all 2164 authors.](#)

Sep 2010

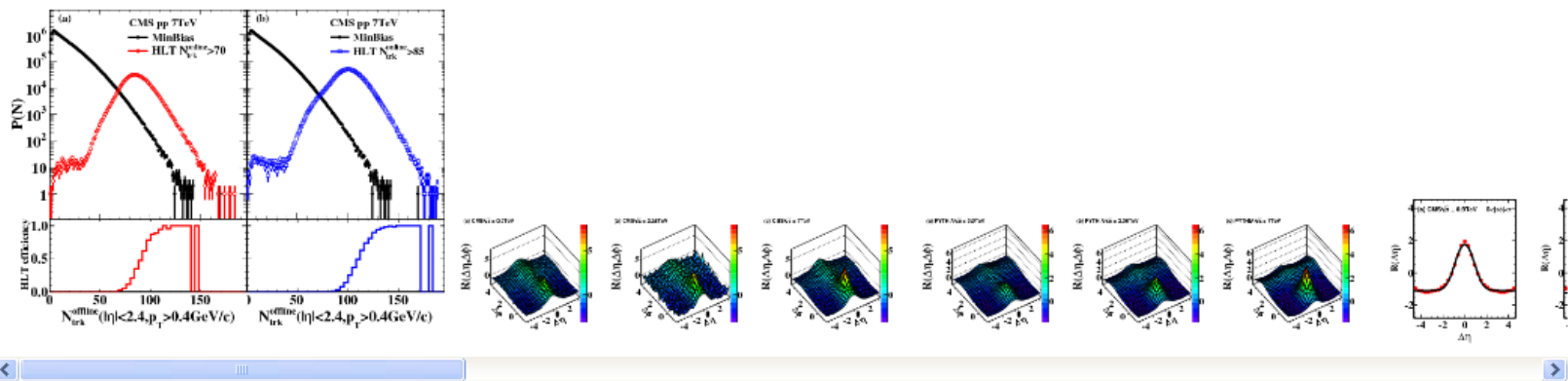
JHEP 1009 (2010) 091

CMS-QCD-10-002,CERN-PH-EP-2010-031

e-Print: [arXiv:1009.4122 \[hep-ex\]](#)

Abstract: Results on two-particle angular correlations for charged particles emitted in proton-proton collisions at center-of-mass energies of 0.9, 2.36, and 7 TeV are presented, using data collected with the CMS detector over a broad range of pseudorapidity (η) and azimuthal angle (ϕ). Short-range correlations in $\Delta(\eta)$, which are studied in minimum bias events, are characterized using a simple 'independent cluster' parametrization in order to quantify their strength (cluster size) and their extent in η (cluster decay width). Long-range azimuthal correlations are studied differentially as a function of charged particle multiplicity and particle transverse momentum using a 980 inverse nb data set at 7 TeV. In high multiplicity events, a pronounced structure emerges in the two-dimensional correlation function for particle pairs with intermediate transverse momentum of 1-3 GeV/c, $2.0 < |\Delta(\eta)| < 4.8$ and $\Delta(\phi)$ near 0. This is the first observation of such a long-range, near-side feature in two-particle correlation functions in pp or p-p-bar collisions.

Keyword(s): INSPIRE: [correlation function: two-particle](#) | [angular correlation: two-particle](#) | [charged particle: multiplicity](#) | [rapidity correlation](#) | [correlation: short-range](#) | [p p: inelastic scattering](#) | [correlation: long-range](#) | [CERN LHC Coll](#) | [CMS](#) | [transverse momentum: dependence](#) | [experimental results](#) | [track data analysis: cluster](#) | [900: 2360: 7000 GeV-cms](#)



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DOI: 10.1007/JHEP09(2010)091

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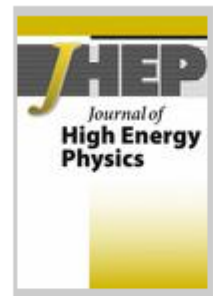
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JOURNAL OF HIGH ENERGY PHYSICS
Volume 2010, Number 9, 1-38, DOI: 10.1007/JHEP09(2010)091 **Open Access**



Observation of long-range, near-side angular correlations in proton-proton collisions at the LHC

The CMS collaboration, V. Khachatryan, A. M. Sirunyan, A. Tumasyan, W. Adam, T. Bergauer, M. Dragicevic, J. Erö, C. Fabjan and M. Friedl, et al.

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- Aamodt, K. (2012) ... *Physics Letters B*
- Bożek, Piotr (2012) Collective flow in p-Pb and d-Pb collisions at TeV energies. *Physical Review C* 85(1)
- Gavin, Sean (2012) Fluctuation probes of early-time correlations in nuclear collisions. *Physical Review C* 85(1)

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arXiv:1109.6572

Search for squarks and gluinos using final states with jets and missing transverse momentum with the ATLAS detector in $\sqrt{s} = 7$ TeV proton-proton collisions

[Search for squarks and gluinos using final states with jets and missing transverse momentum with the ATLAS detector in \$\sqrt{s} = 7\$ TeV proton-proton collisions](#) - [Aad, Georges](#) *et al*

doi:10.1234/inspirehep.data.12345

Extra resource relating to the paper arxiv:1109.6572

Experimental acceptance/efficiency and excluded cross section*branching ratios:

[Signal expectations and experimental acceptance/efficiency for \$M_{\text{gluino}}\$ vs \$M_{\text{squark}}\$ grid \(massless LSP\)](#) , doi:10.1234/inspirehep.data.01234

[Signal expectations and experimental acceptance/efficiency for CMSSM/MSUGRA grid](#) , doi:10.1234/inspirehep.data.54321

SLHA files:

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[susy CMSSM/MSUGRA slha files](#) , doi:10.1234/inspirehep.data.43210a

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- [7] G. Aad et al. Data from: *Search for squarks and gluinos using final states with jets and missing transverse momentum with the ATLAS detector in $\sqrt{s} = 7$ tev proton-proton collisions* (2011), doi:10.1234/inspirehep.data.12345

[Search for squarks and gluinos using final states with jets and missing transverse momentum with the ATLAS detector in \$\sqrt{s} = 7\$ TeV proton-proton collisions](#) - [Aad, Georges](#) *et al*

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Experimental acceptance/efficiency and excluded cross section*branching ratios:

[Signal expectations and experimental acceptance/efficiency for \$M_{\text{gluino}}\$ vs \$M_{\text{squark}}\$ grid \(massless LSP\)](#) , doi:10.1234/inspirehep.data.01234

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