Cornell University
Cornell University Library
We gratefully acknowledge support from
the Simons Foundation
and DESY

export.arXiv.org > hep-ex > arXiv:1212.5407

Search or Article-id
(Help | Advanced search)

◇ All papers

◇ Titles

◇ Authors

◇ Abstracts

◇ Full text

Full-text links:

Download:

- PDF
- Other formats

Current browse context:

hep-ex
< prev | next >
new | recent | 1212

Change to browse by:

nucl-ex

References & Citations

- INSPIRE HEP
  (refers to | cited by)
- NASA ADS

Bookmark

(what is this?)

High Energy Physics - Experiment

Title: Multiplicities of charged pions and kaons from semi-inclusive deep-inelastic scattering by the proton and the deuteron

Authors: HERMES Collaboration: A. Airapetian, N. Akopov, Z. Akopov, E. C. Aschenauer, W. Augustyniak, R. Avakian, A. Avetissian, E. Avetisyan, S. Belostotski, H. P. Blok, A. Borissov, J. Bowles, I. Brodski, V. Bryzgalov, J. Burns, M. Capiluppi, G. P. Capitani, E. Cisbani, G. Ciullo, M. Contalbrigo, P. F. Dalpiaz, W. Deconinck, R. De Leo, L. De Nardo, E. De Sanctis, M. Diefenthaler, P. Di Nezza, M. Düren, M. Ehrenfried, G. Elbakian, F. Ellinghaus, R. Fabbri, A. Fantoni, L. Felawka, S. Frullani, D. Gabbert, G. Gapienko, V. Gapienko, F. Garibaldi, G. Gavrilov, V. Gharibyan, F. Giordano, S. Gliske, M. Golembiovskaya, C. Hadjidakis, M. Hartig, D. Hasch, A. Hillenbrand, M. Hoek, Y. Holler, I. Hristova, Y. Imazu, A. Ivanilov, A. Izotov, H. E. Jackson, H. S. Jo, S. Joosten, R. Kaiser, G. Karyan, T. Keri,
E. Kinney, A. Kisselev, N. Kobayashi, V. Korotkov, V. Kozlov, P. Kravchenko, V. G. Krivokhijine, L. Lagamba, L. Lapikás, I. Lehmann, P. Lenisa, A. López Ruiz, W. Lorenzon, B.-Q. Ma, D. Mahon, B. Maiheu, N. C. R. Makins, S. I. Manaenkov, L. Manfré, Y. Mao, B. Marianski, A. Martinez de la Ossa, H. Marukyan, C. A. Miller, Y. Miyachi, A. Movsisyan, M. Murray, A. Mussgiller, E. Nappi, Y. Naryshkin, A. Nass, M. Negodaev, W.-D. Nowak, L. L. Pappalardo, R. Perez-Benito, A. Petrosyan, M. Raithel, P. E. Reimer, A. R. Reolon, C. Riedl, K. Rith, G. Rosner, A. Rostomyan, J. Rubin, D. Ryckbosch, Y. Salomatin, F. Sanftl, A. Schäfer, G. Schnell, B. Seitz, T.-A. Shibata, V. Shutov, M. Stancari, M. Statera, E. Steffens, J. J. M. Steijger, J. Stewart, F. Stinzing, S. Taroian, A. Terkulov, R. Truty, A. Trzcinski, M. Tytgat, Y. Van Haarlem, C. Van Hulse, D. Veretennikov, I. Vilardi, C. Vogel, S. Wang, S. Yaschenko, Z. Ye, S. Yen, W. Yu, V. Zagrebelnyy, D. Zeiler, B. Zihlmann, P. Zupranski et al. (77 additional authors not shown) You must enabled JavaScript to view entire author list.
(Submitted on 21 Dec 2012 (v1), last revised 24 Apr 2013 (this version, v2))

Abstract: Multiplicities in semi-inclusive deep-inelastic scattering are presented for each charge state of \pi^\pm and K^\pm mesons. The data were collected by the HERMES experiment at the HERA storage ring using 27.6 GeV electron and positron beams incident on a hydrogen or deuterium gas target. The results are presented as a function of the kinematic quantities x_B, Q^2, z, and P_h\perp. They represent a unique data set for identified hadrons that will significantly enhance our understanding of the fragmentation of quarks into final-state hadrons in deep-inelastic scattering.

Subjects:	High Energy Physics - Experiment (hep-ex); Nuclear Experiment (nucl-ex)
DOI:	10.1103/PhysRevD.87.074029
Report number:	DESY 12-157
Cite as:	arXiv:1212.5407 [hep-ex]
	(or arXiv:1212.5407v2 [hep-ex] for this version)

Submission history

From: Gunar Schnell [view email]
[v1] Fri, 21 Dec 2012 11:54:55 GMT (260kb,D)
[v2] Wed, 24 Apr 2013 12:55:48 GMT (1204kb,D)
Which authors of this paper are endorsers?

Link back to: arXiv, form interface, contact.