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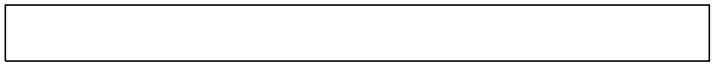

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High Energy Physics - Experiment

Title: Multidimensional Study of Hadronization in Nuclei

Authors: HERMES Collaboration: A. Airapetian, N. Akopov, Z. Akopov, E.C. Aschenauer, W. Augustyniak, R. Avakian, A. Avetissian, E. Avetisyan, S. Belostotski, N. Bianchi, 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, G. Gapienko, V. Gapienko, G. Gavrilov, V. Gharibyan, F. Giordano, S. Gliske, M. Golembiovskaya, L. Grigoryan, C. Hadjidakis, M. Hartig, D. Hasch, A. Hillenbrand, M. Hoek, Y. Holler, I. Hristova, Y. Imazu, A. Ivanilov, 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, X.-G. Lu, X.-R. Lu, B.-Q. Ma, D. Mahon, 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, V. Muccifora, 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, R. Truty, A. Trzcinski, M. Tytgat, A. Vandenbroucke, Y. Van Haarlem, C. Van Hulse, D. Veretennikov, V. Vikhrov, I. Vilardi, C. Vogel, S. Wang, S. Yaschenko, Z. Ye, S. Yen, W. Yu, V. Zagrebelnyy, D. Zeiler, B. Zihlmann, P. Zupranski
et al. (78 additional authors not shown) You must enabled JavaScript to view entire author list.
(Submitted on 18 Jul 2011 (v1), last revised 13 Sep 2011 (this version, v3))

Abstract: Hadron multiplicities in semi-inclusive deep-inelastic scattering were measured on neon, krypton and xenon targets relative to deuterium at an electron(positron)-beam energy of 27.6 GeV at HERMES. These ratios were determined as a function of the virtual-photon energy nu, its virtuality Q2, the fractional hadron energy z and the transverse hadron momentum with respect to the virtual-photon direction pt . Dependences were analysed separately for positively and negatively charged pions and kaons as well as protons and antiprotons in a two-dimensional representation. Compared to the one-dimensional dependences, some new features were observed. In particular, when z > 0.4 positive kaons do not show the strong monotonic rise of the multiplicity ratio with nu as exhibited by pions and negative kaons. Protons were found to behave very differently from the other hadrons.

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