

Strangeness Production In Antiproton Annihilation At Rest

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Strangeness Production In Antiproton Annihilation

Strangeness production in antiproton-nucleus annihilation A.B. Larionov1,2,3,a, T. Gaitanos1, H. Lenske1, and U. Mosel1 1 Institut f\u00fcr Theoretische Physik, Universit\u00e4t Giessen, D-35392 Giessen, Germany \u00b2 National Research Center "Kurchatov Institute", 123182 Moscow, Russia

Strangeness production in antiproton-nucleus annihilation

For pure S=1 annihilations at rest the ratio R has been estimated to be 1.46 [r.8]). F. Balestra et al. / Strangeness production 417 For S=0 annihilation plus rescattering thratio R has been estimated to be 1.10 for \u00b9C below 400 MeV/c and 1.43 for \u00b9Ne at 600 MeV/c [r.6]).

Strangeness production in antiproton annihilation at rest ...

The strangeness production in antiproton annihilation on nuclei is investigated within a cascade-type model, keeping with a conventional picture of the annihilation on a single nucleon followed by subsequent rescattering proceeding within the hadronic phase.

Strangeness production in antiproton annihilation on ...

A general measure of strangeness production in antiproton-nucleus interactions is given which is unaffected by strangeness exchange reactions occuring after the initial annihilation.

Strangeness production in antiproton-nucleus annihilation

The strangeness production in antiproton annihilation on nuclei is investigated by means of a cascade-type model, within the frame of the conventional picture of the annihilation on a single nucleon followed by subsequent rescattering proceeding in the hadronic phase.

Strangeness production in anti-proton annihilation on ...

High strangeness production in antiproton annihilation at rest on few nucleon systems as a possible signature of quark deconfinement or QGP occurrence Bendiscioli, G. Bressani, T.

High strangeness production in antiproton annihilation at ...

Antiproton-Proton Annihilation into Antibaryon-Baryon Pairs: The Hadronic Approach (R. Sham, H.L., PRD 90 (2014) 014017 & PRD 93 (2016) 034016, A.Larionov, H.L., PLB 773 (2017) 470) ... Mult-Strangeness production in central antiproton-nucleus collisions ...

Strangeness and Charm Production by Antiprotons

However, the double strangeness exchange process, KN \u2192 K, mainly responsi- thr ble for production, is endothermic (p = 1.05 GeV/c\u2013K beam momentum at lab thr threshold, y = 0.55\u2013c.m. rapidity at threshold) and requires a fast incoming K. c.m. ds/dy (mb) Strangeness production in antiproton-nucleus collisions 87 Such antikaons are mostly emitted in the forward direction in the laboratory frame.

Strangeness production in antiproton-nucleus collisions ...

High strangeness production in antiproton annihilation at rest on few nucleon systems as a possible signature of quark deconfinement or QGP occurrence

(PDF) Strangeness production in antiproton-nucleus collisions

Strangeness production in antiproton-nucleus annihilation By Mosel U., Lenske H., Larionov A.B. and Gaitanos T. No static citation data No static citation data Cite

Strangeness production in antiproton-nucleus annihilation

Agenda: \u25a1 Charm and strangeness production in antiproton-nucleon annihilation \u25a1 Covariant Lagrangian description of reactions \u25a1 Evidence for meson-exchange in reactions \u25a1 Hypernuclear production by coherent antiproton-nucleus reactions \u25a1 Multi-Strangeness S=-2,-3 production in antiproton-nucleus collisions ...

Strangeness and Charm Production by Antiprotons

Strangeness production in antiproton annihilation on atomic nuclei has focused attention after it was suggested that it might carry on information on possible formation of quark-gluon blobs [1, 2] or on other unconventional mechanisms, like the genuine annihilation on several nucleons [-3, 7].

Double strangeness production in antiproton annihilation ...

F. Balestra et al. / Strangeness production 417 For B = 0 annihilation plus rescattering the ratio R has been estimated to be 1.10 for \u00b92C below 400 MeV/ c and 1.43 for \u00b920Ne at 600 MeV/c [ref. ")]. There have been essentially six experiments investigating strange particle produc-

STRANGENESS PRODUCTION IN ANTIPROTON ANNIHILATION AT REST ...

Strangeness production in annihilation of antiprotons on nuclei has attracted much attention in recent years. An important issue is the possible enhancement, compared to free-space nucleon-antinucleon annihilation. It was indeed suggested that an increase

Double strangeness production in low-energy antiproton ...

Search for double strangeness production in low energy antiproton annihilations on Xenon nuclei has identified 33 unambiguous events with two or more strange particles in the final states. The yields of the K + K + X and K + K 0 X channels turned out of the order of 10 \u20135 \u201310 \u20134 , greater than the evaluation starting from strangeness production on a free nucleon.

Double strangeness production in \u03b2Xe annihilation at low ...

Strange particles and hyperfragments in collisions of antiprotons and protons on nuclei have been investigated systematically within a microscopic transport model. The hyperons are produced from the annihilation in antibaryon-baryon collisions and the strangeness exchange process in antiproton induced reactions.

Phys. Rev. C 101, 064601 (2020) - Strangeness production ...

Reactions in which proton-antiproton annihilation produces as many as nine mesons have been observed, while production of thirteen mesons is theoretically possible. The generated mesons leave the site of the annihilation at moderate fractions of the speed of light, and decay with whatever lifetime is appropriate for their type of meson.

Annihilation - Wikipedia

These experimental measurements set upper limits on the number of antiprotons that could be produced in exotic ways, such as from annihilation of supersymmetric dark matter particles in the galaxy or from the Hawking radiation caused by the evaporation of primordial black holes. This also provides a lower limit on the antiproton lifetime of about 1-10 million years.