

Strangeness Production In Antiproton Annihilation At Rest

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Strangeness Production In Antiproton 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 antiproton annihilation on nuclei

Strangeness production in antiproton annihilation on nuclei. Universitde Liege, Physique Nuclire Thrique, Institute de Physique au Sart Tilman, Biment B.5, B-4000 Liege I (Belgium) 7) D.E. Kharzeev and M.G. Sapozhnikov, preprint E4-88-930, Dubna (1988) 8) J. Cugnon et al., Phys. Rev. C39 (1989) 181 9) R. Bizzarri et al., Lett.

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 ...

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 ...

Strangeness production in antiproton-nucleus annihilation A.B. Larionov^{1,2,3,a}, T. Gaitanos¹, H. Lenske¹, and U. Mosel¹ ¹ Institut f"ur Theoretische Physik, Universit at Giessen, D-35392 Giessen, Germany" ² National Research Center "Kurchatov Institute", 123182 Moscow, Russia

Strangeness production in antiproton-nucleus annihilation

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

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 ...

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Strangeness production in antiproton-nucleus 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 ^{12}C below 400 MeV/c and 1.43 for ^{20}Ne at 600 MeV/c [ref. ()]. There have been essentially six experiments investigating strange particle produc-

STRANGENESS PRODUCTION IN ANTIPROTON ANNIHILATION AT REST ...

It was indeed suggested that an increase of strangeness production in antiproton annihilation on nuclei could provide a hint of the hypothetical formation of a cold quark-gluon plasma. Along this line, Rafelski [2] has explicitly considered the possibility of supercold quark matter formation in some data of strangeness enhancement obtained at KEK in $p^- \text{Ta}$ annihilation at 4 GeV/c [3].

Double strangeness production in $p\bar{X}e$ annihilation at low ...

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

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 ...

Production in Stopped- p. bar. Annihilation. A result of a search for double -strangeness productions in antiproton-nuclei annihilations was reported by using the . BNL bubble chamber, in association with the H -dibaryon search. They did NOT observe any double -strangeness event in antiproton - C, Ti, Ta, Pb annihilation (~80,000 events, $p(\text{p. bar}) < 400$ MeV/c) Reaction

A search for double anti-kaon production in antiproton- He ...

The production of double-strangeness by antiproton annihilation in nuclei will be an exciting way to investigate whether the formation of deeply bound antikaonic nuclear clusters occurs. The existence of deeply bound antikaonic nuclear clusters is a lively debated problem in hadron physics today, which can be solved only experimentally. At CERN with the Antiproton Decelerator (AD) and in ...

Double-strangeness production with antiprotons, Hyperfine ...

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.

Antiproton - Wikipedia

Summary and Outlook • Strangeness production through baryon resonances • Heavy Ion collisions and hypernuclear fragmentation • Multi-Strangeness production in antiproton annihilation • Dominance of hadronic strangeness accumulation scenarios • SU(3) anti-octet physics: anti-baryons in nuclear matter • Charmed mesons and hyperons (PRD (2015), PRD (2016))

Strangeness Production in Heavy-Ion Collisions and ...

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

When an electron and a positron collide and annihilate, a very simple process takes place: With very high probability, the electron and positron interact and create a virtual photon (which you could imagine to be "pure" energy) and then the virtu...

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