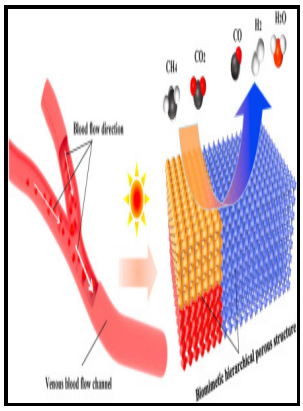
Analysis of rho mesons produced by 3BeV/C [pie-] mesons in hydrogen.

- - Reaction of electron



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Physics ThesesAnalysis of rho mesons produced by 3BeV/C [pie-] mesons in hydrogen.
-Analysis of rho mesons produced by 3BeV/C [pie-] mesons in hydrogen.
Notes: Thesis (M.Sc.), Dept. of Physics, University of Toronto
This edition was published in -

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Nuclear photoproduction of rho mesons

When only the primary particle energy is of interest, and all shower components are sampled, a detailed understanding of the energy transfer from the hadronic particles to the electromagnetic shower component is not needed. The paper is organized as follows: A brief description of the experimental setup, the collected data, data reconstruction and simulation is presented in Sect.

ANALYSIS OF THE DECAY OF rho$sup

The effect of the event and track selection cuts were checked by performing the analysis with the following cuts changed, compared to the values shown in Sect. Production interactions are interactions with at least one new particle produced, i. However, the fit quality is worse and the agreement between the two background estimates is weaker.

Search for the Modification of the Properties of the ω Meson in Cold Nuclear Matter in the Hyperon

The systematic uncertainties shown are before adding contributions from the differences to the extended fit range and Breit—Wigner function fits 9 It is the function used to both sample resonances and generate their widths in Epos 1. The systematic uncertainties were estimated from the differences between the results obtained using the standard analysis and ones obtained when adjusting the method as listed above.

ANALYSIS OF THE DECAY OF rho$sup

Given these considerations it is evident that the modeling of air showers depends crucially on our knowledge of pion interactions with air. The diffractive ρ 0 mesons used for this analysis were produced at the HERMES experiment in 1996 and 1997 in collisions of a 27. These small differences, of the order of 3% for the fits with a Breit—Wigner function and 10% for the extended fit range, are added in quadrature to the systematic uncertainties.

Search for the Modification of the Properties of the ω Meson in Cold Nuclear Matter in the Hyperon

No resonance, meson or baryon, could be found in Epos 1. The fitting procedure uses templates of the invariant mass distribution for each resonance of importance. They are dominated by the correction factor contribution, up to 15%, whereas the other contributions are less than 4%.

Measurement of meson resonance production in ^

There exist indications that the internal energy of a cluster emitting.

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