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

- - ANALYSIS OF THE DECAY OF rho$sup

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-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 -

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

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The function used is the one used in Ref. A detailed description of the experiment is presented in Ref.

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The vertex- z resolution depends on the multiplicity of an event and is about 4. The hadronic structure of the photon allows it to interact strongly with a nuclear target N, as a result of which real vector mesons, such as the ρ 0, may be produced. This range is accessible to fixed-target experiments with charged pion beams.

Production And Decay Of Diffractive Neutral Rho Mesons At Hermes

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. Refining the event mixing method by splitting the data into multiplicity classes did not improve the quality of this method. Crmc is an event generator package with access to a variety of different event generators, such as DPMJet 3.

Measurement of meson resonance production in ^

Fit range The default fit range used in this analysis was restricted to the mass ranges of the resonances of interest.

Reaction of electron

They are dominated by the correction factor contribution, up to 15%, whereas the other contributions are less than 4%. Depending on the particle energy and density of the medium in which the shower evolves, secondary particles either decay or re-interact, producing further secondaries. To investigate this effect another hadronic interaction model was used, DPMJet 3.

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