

Hadronic Chain Model for Soft Multiparticle Production

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We construct a Monte-Carlo model of event generation for multiparticle production in hadron-hadron collisions, on the basis of the picture that hadrons and resonances are emitted from hadronic chain, satisfying cascade relations concerning the light-like momenta at the emission. The diffractive component is taken into account by adopting Pomeron link together with mesonic and baryonic links in the chain. As a simple version of the model, direct emissions of mesonic and baryonic resonances with the two-body decay modes, as well as stable mesons and baryons are taken into account. The distribution in transverse momentum, the flavor of hadrons and the $B\bar{B}$ -pair production are disregarded for simplicity. It is found that the model is able to describe the gross features of the data concerning inclusive spectra and multiplicity distributions up to ISR energies in meson-baryon and baryon-baryon collisions.

§ 1. Introduction

Recently, various types of fragmentation spectra in soft hadron-hadron collisions were extensively studied in terms of quark-diquark cascade model, with considerable success.¹⁾ The same subject has been studied also in other models with cascade of constituents.²⁾ Alternatively, multiperipheral cascade models in terms of hadronic Regge poles were studied previously.³⁾

The cascade type models may embody smooth connection between fragmentation and central regions if they have the chain structure connecting the beam and target hadrons.⁴⁾ However, the "infra-red" quantities such as the multiplicity and the central-plateau height are sensitive to the way how the cascade terminates. In this paper, we present a chain model which incorporates cascade structures both from beam and target sides, satisfying energy momentum conservation in a natural way. As a simple version for hadron-hadron collision, we formulate it in terms of hadronic chain.

The purpose of the model is two-fold: First, it may work as a convenient tool for the understanding of the essence of the multiparticle production dynamics in hadron-hadron collisions. Second, it may provide a handy device for multi-chain model of high energy collisions involving nucleus.⁵⁾

For this purpose, we present here a simple version in which the distribution in transverse momentum is discarded, as well as the flavor of hadrons. On the other hand, we keep the distinction among the meson, baryon and their resonances, considering M , B , M_R and B_R as emitted particles from the hadronic chain. In this approximation, we have a lot of quantities to compare with the data, because the multiplicity information and the longitudinal distributions are of the first importance to characterize the soft multiparticle production. Owing to the structure of the chain satisfying the cascade relations from both of beam and target sides, which we call

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