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CHIPS based hadronization of quark-gluon strings

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Quark-gluon strings are usually fragmented on the light cone in hadrons (PITHIA, JETSET) or in small hadronic clusters which decay in hadrons (HERWIG). In both cases the transverse momentum distribution is parameterized as an unknown function. In CHIPS the colliding hadrons stretch Pomeron ladders to each other and, when the Pomeron ladders meet in the rapidity space, they create Quasmons (hadronic clusters bigger than Amati-Veneziano clusters of HERWIG). The Quasmon size and the corresponding transverse momentum distributions are tuned by the Drell-Yan $\mu^+\mu^-$ pairs. The final Quasmon fragmentation in CHIPS is tuned by the e^+e^- and proton-antiproton annihilation, which is already published.

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