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The hadronic yield from dynamical quark recombination

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Abstract content

We present a dynamical quark recombination model to study the hadron yield through the hadron-quark matter transition. The model is based on a variational approach to the many-body system and a truly many-body potential. Using the single variational parameter of the model as a probability we are able to explain, in a Bjorken scenario that incorporates the proper time evolution of the system, the proton to pion ratio at low p_t as measured by RHIC. The results show to be sensitive to the initial evolution proper time.

Summary

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