

Abstract Submitted
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3-D Source Functions at RHIC from the AMPT Model ZI-WEI LIN, East Carolina University — We present results from the AMPT model on pion source functions in Au+Au collisions at RHIC, including source functions along the out, side and long directions. Effects of kinematical cuts on both source functions and correlation functions will be studied. Previously the AMPT model has roughly reproduced the pion correlation functions at 130A GeV in Au+Au collisions (Phys. Rev. Lett. 89, 152301, 2002) as well as the fitted radius parameters (Phys. Rev. C 72, 064901, 2005). Here we compare with available data on both source functions and correlation functions at RHIC, and investigate possible reasons in case of inconsistencies.

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