Massive excitations in a QGP enhance thermal charm

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- light quarks and gluons can acquire an effective mass in QGP

- system evolves slower when $m_q, m_g \neq 0$

- assume thermal, chemical equilibrium, Bjorken expansion — maximizes thermal charm + $c\bar{c}$ production threshold lowered

Two sets of initial conditions explored

- parton gas - HIJING
  $T_0 = 550$ MeV $\tau_0 = 0.7$ fm

- minijet gas $\tau_0 = 0.1$ fm
  $T_0 = 495$ MeV gluons only
  $T_0 = 360$ MeV light quarks + gluons