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Strangeness baryon to meson ratio

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We present a model to compute baryon and meson transverse momentum
distributions, and their ratios, in relativistic heavy ion collisions.
Our model allow to compute the probability to form colorless bound
states of either two or three quarks as functions of the evolving
density during the collision. The qualitative differences of the
baryon to meson ratio for different collision energies and for
different particle species can be associated to the different density
dependent probabilities when accounting for the combinatorial factors
which in turn depend on whether the quarks forming the bound states
are heavy or light. We compare to experimental data and show that we
obtain a good description up to intermediate values of pt.

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