Contribution ID: 349 Type: Poster

## Effects of rho-meson width on pion distributions and anisotropies in heavy-ion collisions

We study the influence of the finite width of rho meson on the pion momentum distributions and anisotropies. We evaluate the rho-meson properties in the S-matrix framework, and implement them in the hydrodynamical description of the expansion dynamics.

We show that the proper treatment of rho mesons modifies the spectrum of daughter particles, and thus the final observable distributions [1]. In particular the yield of pions at low p\_T increases, which improves the description of the pion spectrum obtained in the heavy-ion experiments.

[1] P. Huovinen, P.-M. Lo, M. Marczenko, K. Morita, K. Redlich, C. Sasaki, arXiv:1608.06817

## **Preferred Track**

Collective Dynamics

## Collaboration

Not applicable

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Session Classification: Poster Session