Contribution ID: **619** Type: **Poster**

Momentum anisotropy at freeze out

Tuesday 15 May 2018 19:10 (30 minutes)

The transition from a hydrodynamical modeling to a particle-based approach is a crucial element of the description of heavy-ion collisions at high energies. Assuming this "freeze out" happens instantaneously at each point of the expanding medium, we show that the local phase-space distribution of the emitted particles is asymmetric in momentum space. This suggests the relevance of anisotropic hydrodynamics for the last stages of the fluid evolution. We further discuss how finite-state observables depend on the amount of momentum-space anisotropy at freeze out and how smaller or larger anisotropies allow for different values of the freeze-out temperature.

Content type

Theory

Collaboration

Centralised submission by Collaboration

Presenter name already specified

Authors: BORGHINI, Nicolas (University of Bielefeld); FELD, Steffen (Universität Bielefeld)

Presenter: FELD, Steffen (Universität Bielefeld)

Session Classification: Poster Session

Track Classification: Collective dynamics