



Contribution ID: 530

Type: Poster

Effects of hadronic reinteraction on jet fragmentation from small to large systems

Tuesday 5 September 2023 17:30 (2h 10m)

The effect of the hadronic phase on jet quenching in nuclear collisions is largely an open question, although there are tantalizing hints from previous studies that the effects might be sizable. We have implemented a hadronic afterburner phase for jet fragmentation hadrons in the JETSCAPE framework using SMASH. We have applied the new setup to $e^+ + e^-$, $p + p$ and $A + A$ systems in order to study the effects of hadronic rescattering. For a quantitative analysis we compare simulations, with and without rescatterings of shower hadrons during the afterburner phase. We report here effects on hadron spectra and jet observables as a function of collision system, collision energy and multiplicity.

Category

Theory

Collaboration (if applicable)

JETSCAPE Collaboration

Primary author: Mr ROCH, Hendrik (FIAS)

Presenter: Mr ROCH, Hendrik (FIAS)

Session Classification: Poster Session

Track Classification: Jets