

**For panel discussion on small systems**

# Re: hydro/kinetic theory applied to systems of $\mathcal{O}(1 \text{ fm})$ size with sub-fermi structures...

**one intriguing question:** how/when quantum mechanics (wave physics) enters - e.g., cannot localize both in  $x$  and  $p$

$\Rightarrow$  **inherent momentum anisotropies** e.g. DM, Wang & Greene 1404.4119

**Also, if these systems are opaque enough for hydro, there should be energy loss (jet quenching) signatures.** E.g., p+Pb @ 5.02 TeV (top 3.4% cent):

DM & Sun at QM2015

