

# Quark Matter 2019 - the XXVIIIth International Conference on Ultra-relativistic Nucleus-Nucleus Collisions



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## Hanbury-Brown-Twiss radii at 200 GeV using anisotropic hydrodynamics

*Monday 4 November 2019 17:40 (20 minutes)*

In this talk, we will review the basics of 3+1d quasiparticle anisotropic hydrodynamics (aHydroQP) and highlight some phenomenological comparisons with experimental data at both 2.76 TeV and 200 GeV. We will then present preliminary comparisons of the femtoscopic Hanbury-Brown-Twiss (HBT) radii using aHydroQP. We will show comparisons of the HBT radii and their ratios between aHydroQP and the experimental results from both the STAR and PHENIX experiments. Our preliminary results for pion interferometry based HBT radii are in quite good agreement with the experimental results from both collaborations particularly at low pair mean transverse momentum.

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