Long-range azimuthal correlations arising with HBT suppressions in partially coherent pion emission in pp collisions

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1. Optical nature of the particle (pion) emission in relativistic pp/pA/AA collisions. Chaotic or coherent?

2. Azimuthal correlation in coherent emission.

3. Coherent pion-emitting source with transverse and longitudinal expansions.

4. Two-particle correlation function, $C(\Delta \eta, \Delta \phi)$, for coherent pion-emitting source:

5. Extracting the coherent fraction in pion emission from the two-pion HBT data:

6. Transverse momentum spectrum and elliptic anisotropy of partially coherent pion emission.

7. Long-range two-particle correlation function.

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