

# HBT overview

*Monday, June 12, 2017 2:10 PM (25 minutes)*

This talk will address some of the fundamental questions, related to the applications of the Hanbury-Twiss effect in high energy physics: Is the two-particle HBT correlation function unity plus a positive definite form –or not? Can it be described by two-particle symmetrization effects –or not? Is the shape of the correlation function a Gaussian –or not? The overview also includes some recent results related to the sensitivity of the HBT measurements to UA(1) symmetry restoration as well as to a signal of QCD phase transition in cross-over or second-order phase transitions.

### List of tracks

Femtoscopy in A+A, p+p, p+A and e+-e- collisions at relativistic, intermediate and low energies

**Primary author:** CSORGO, Tamas (Hungarian Academy of Sciences (HU))

**Presenter:** CSORGO, Tamas (Hungarian Academy of Sciences (HU))

**Session Classification:** Femtoscopy and correlation studies in A+A, p+p, p+A and e+-e- collisions at relativistic, intermediate and low energies