Contribution ID: **61**   Type: **not specified**

Description of multipole asymmetries with Buda Lund hydrodynamical model

Thursday 5 November 2015 17:05 (20 minutes)

The Buda-Lund hydro model describes an expanding ellipsoidal fireball, and fits the observed elliptic flow and the second order HBT oscillations successfully. If the finite number of nucleons are taken into account then the shape of the fireball fluctuates on an event-by-event basis and specifies the final state asymmetries which can be translated into a series of multipole anisotropy coefficients. These anisotropies then result in measurable phase-space anisotropies, to be measured with respect to their respective symmetry planes. In my talk I present an updated, multipole version of the Buda-Lund model and investigate the resulting higher order flow coefficients and the oscillations of the HBT radii.

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Session Classification: Session 10