Contribution ID: **32** Type: **Parallel**

Mapping initial state correlations in rapidity unsing collective flow

Tuesday, 24 May 2016 18:20 (20 minutes)

We present results of a 3+1 dimensional hydrodynamic model for flow correlations in pseudorapidity. The method can be used to unfold the correlations in the initial fireball at different space-time rapidities.
We discuss possible mechanism of generating initial correlations in rapidity, both with nucleon and parton degrees of freedom. Particular sensitivity to the initial correlations is found in collisions of small asymmetric systems, such as p-Pb collisions.

Primary author: BOZEK, Piotr (AGH University of Science and Technology)

Co-author: BRONIOWSKI, Wojciech (IFJ PAN)

Presenter: BOZEK, Piotr (AGH University of Science and Technology)

Session Classification: Parallel