

Abstract Submitted
for the DNP15 Meeting of
The American Physical Society

Anisotropic Flow analysis methods at small collision systems

SHENGQUAN TUO, QIAO XU, JULIA VELKOVSKA, Vanderbilt University —
Measurements of anisotropic flow in relativistic heavy ion collisions probe the properties of QGP and the initial conditions. The discovery of charged particle anisotropic flow in small systems like pPb, dAu and He3Au collisions poses a question of what is the smallest droplet of hot QCD matter with liquid-like behavior. This question is difficult to answer without understanding the behavior of various flow analysis methods in small charged particle multiplicities with small values of anisotropic flow. We present a systematic examination of various methods including two and multi-particle correlations around the flow turn-on conditions.

Shengquan Tuo
Vanderbilt University

Date submitted: 01 Jul 2015

Electronic form version 1.4