Collectivity in small systems



- The deconfined quark-gluon plasma formed in nucleus-nucleus collisions at RHIC and the LHC is best described as a fluid.
- But the phenomena leading to this conclusion have then been observed, to some extent, in proton-nucleus, and even high-multiplicity proton-proton collisions.
- Are the underlying mechanisms identical in all systems?
- Can we describe small systems as fluids?

Collectivity in small systems

- Roberta Arnaldi (Torino, Italy), ALICE experiment
- Wei Li (Rice University, USA), CMS experiment
- Piotr Bożek (Cracow, Poland), hydrodynamics
- Dénes Molnár (Purdue University, USA), kinetic theory
- Wilke van der Schee (MIT, USA), strong coupling&holography
- Sören Schlichting (Brookhaven, USA), Yang-Mills dynamics
- Jean-Yves Ollitrault (Saclay, France).