1. What is the experimental evidence for hydrodynamics in heavy-ion collisions?

2. Are there any observables that are sensitive to the process of thermalization?

Mass dependence of m_T slopes due to radial flow blue shift



Radial flow: Mass dependence of mean p_T and m_T slopes



Mass dependence of v_{2.3}(p_T)



3.5

3

2.5

4.5

4

p_t (GeV/c)



Simultaneous description of all v_n



Simultaneous description of all soft hadron data



plus many more....

Dynamical response to geometry: elliptic flow as function of centrality



Collectivity









Event-plane decorrelation in rapidity



Bozek (arXiv: 1506.04362) showed how to to describe these with hydrodynamics

Event-plane correlations









Event-plane correlations



*Initial three participant-plane angle correlations cannot describe data.

Sensitivity of observables to thermalization time:



Need combination of observables to pin down duration of thermalization stage.