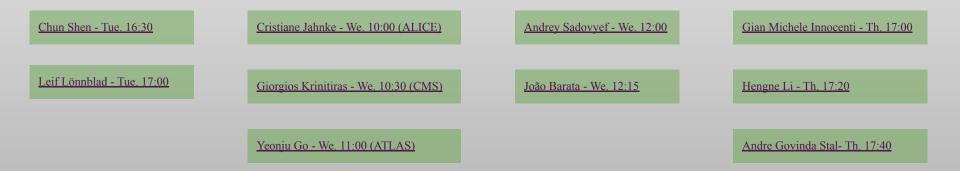
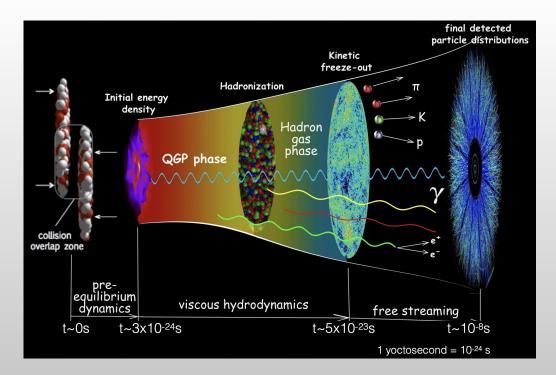


Heavy Ions Summary



Outline

- Medium
 - Modelling the medium
 - Flow
- Interactions with the medium
 - Jets
 - Heavy-flavor flow



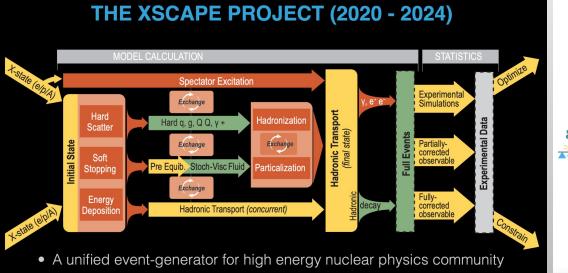
The medium

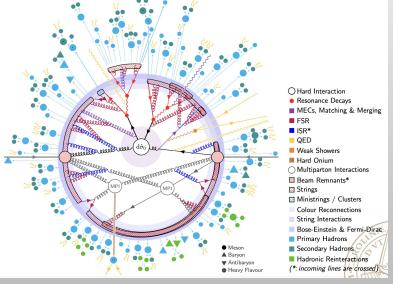
Modelling the medium

Chun Shen - Tue. 16:30



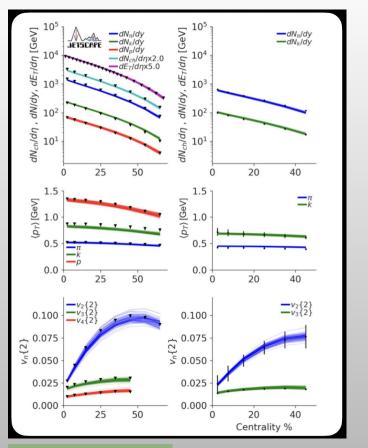


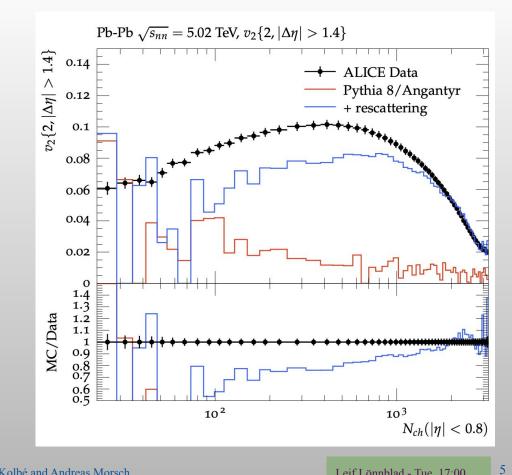




Leif Lönnblad - Tue. 17:00

Flow

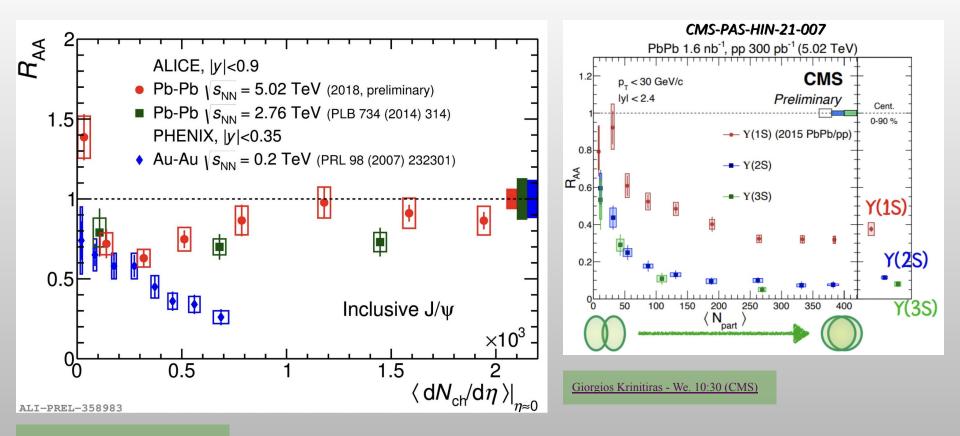




Chun Shen - Tue. 16:30

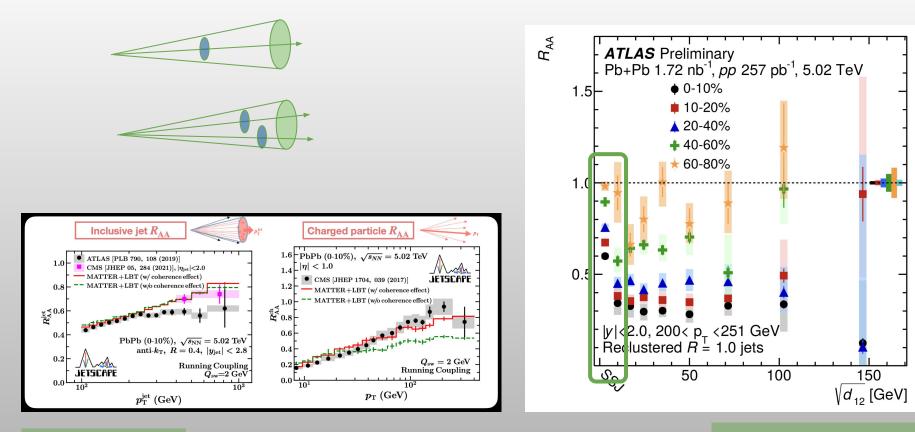
Isobel Kolbé and Andreas Morsch 13th International workshop on Multiple Partonic Interactions at the LHC

J/Ψ melts, but also recombines



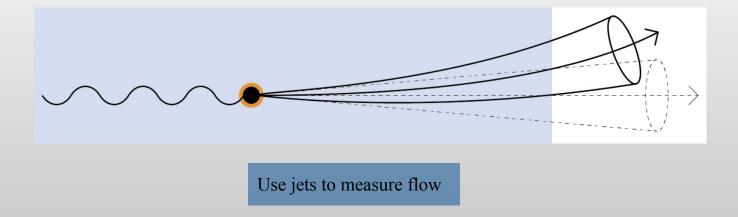
Interactions with the medium

Multiple interactions w/ medium \rightarrow more suppressed



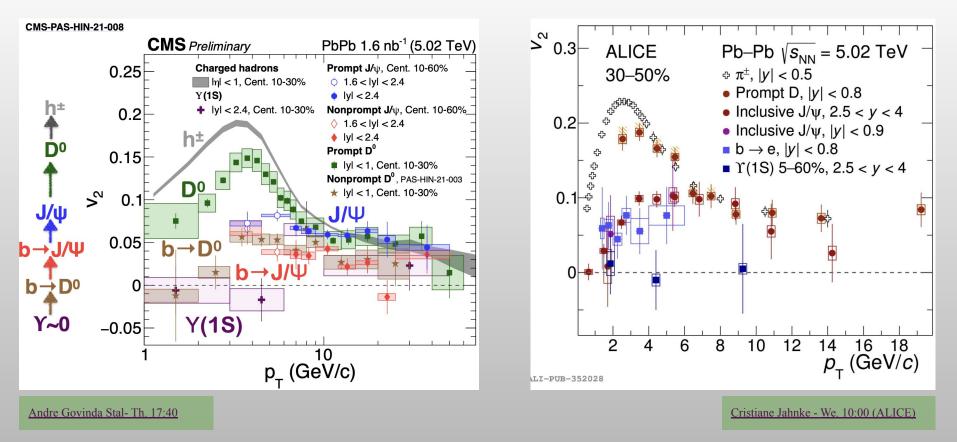
Isobel Kolbé and Andreas Morsch 13th International workshop on Multiple Partonic Interactions at the LHC

Interactions w/ the medium "bend" the jet



Andrey Sadovyef - We. 12:00 João Barata - We. 12:15

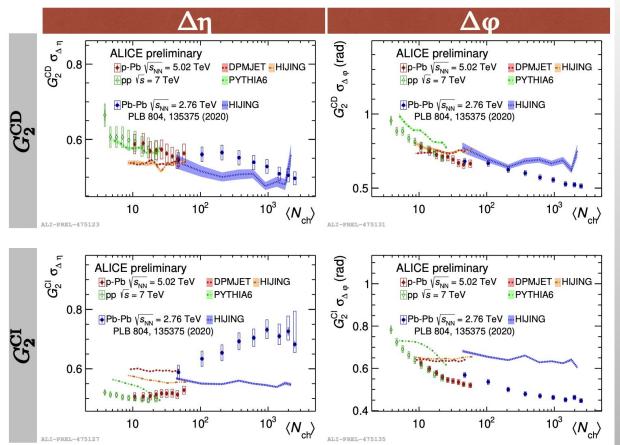
Heavy-flavor flow



Take-home messages

- Medium:
 - Hydrodynamics is very successful, but we are also starting to be able to give quantitative answers to the question: "How much of the HI data can you describe without a fluid?"
 - Two-particle transverse momentum correlations do not show a smooth cross-over from pp to pPb to PbPb. Why is that?
- Interactions with the medium:
 - Multi-pronged jets lose more energy
 - Can compute: bending of a jet due to flow
 - \circ High-pT J/ $\!\Psi$ flows path-length dependent energy-loss

Small systems



Two- particle transverse momentum correlations

Evidence for radial flow, but not for viscous effects

¹³th International workshop on Multiple Partonic Interactions at the LHC