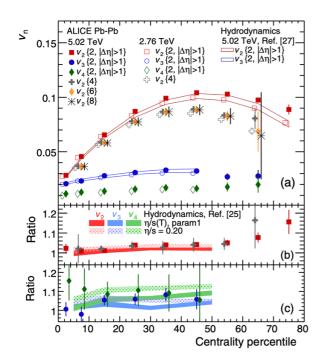
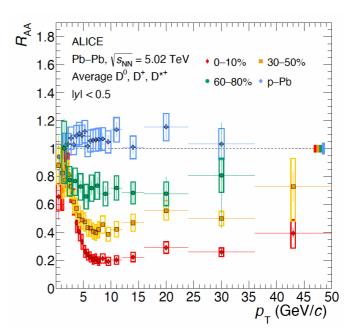
## Quiz - Heavy-Ion Physics, Quark-Gluon Plasma

- 1. Sketch the QCD phase diagram; explain the axes and the phases.
- 2. Shortly describe the space-time evolution of a heavy-ion collision at high energies.
- 3. What are the necessary conditions for a formation of a quark-gluon plasma?
- 4. Is a quark-gluon plasma created in heavy-ion collisions at the LHC? (Yes/No +Reason)
- 5. What is depicted in the figures below (discussed in lecture)? Explain the underlying physics.
- 6. Why are  $J/\psi$  mesons an interesting probe in heavy-ion collisions?



ALICE Collaboration: PRL116(2016)132302 (Fig. 1)



ALICE Collaboration: arXiv:2110.09420 [nucl-ex] (Fig. 7)

