Interactive Session:

International Workshop on Forward and Jet Physics at LHC

Bose Institute, Kolkata

1. Why do we investigate gluon saturation particularly in d-Au collision? Why not in p-p, Au-Au?

2. What do we mean by Soft Drop? (Jet experiment)

3. What is jet grooming?

4. What is background formalism of $q$hat?

5. Is there any measurement of $q$hat in SPS?

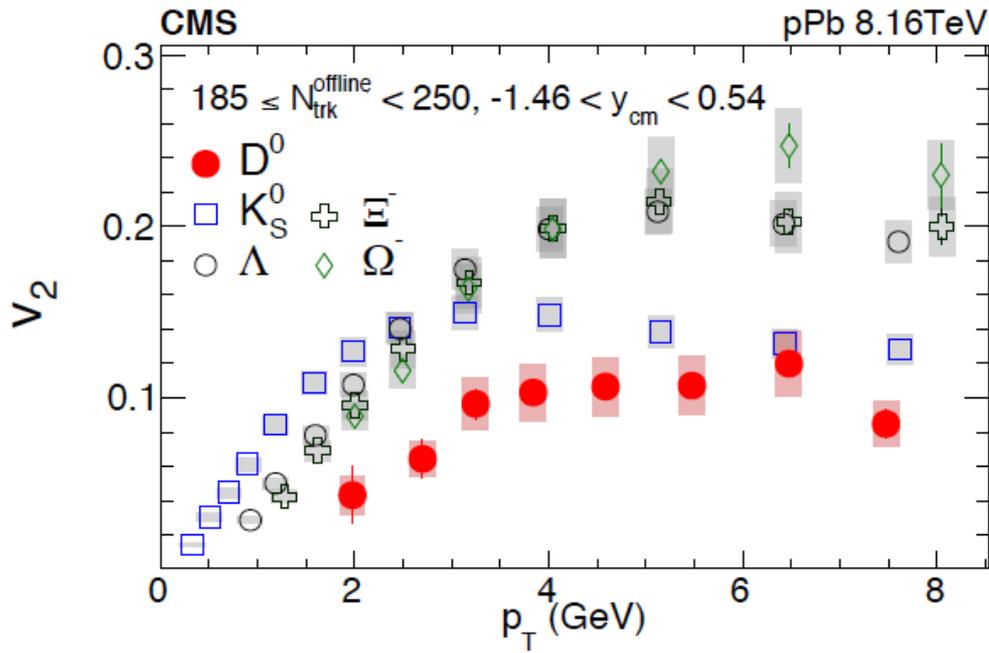6. What is the comparative value of gluon $q$hat and quark $q$hat ?

7. ALICE and CMS have very different kinematic reach (rapidity and energy) for jet measurement. What are the kinematic reaches in these events and what are the constraints?

ALI-PUB-157567
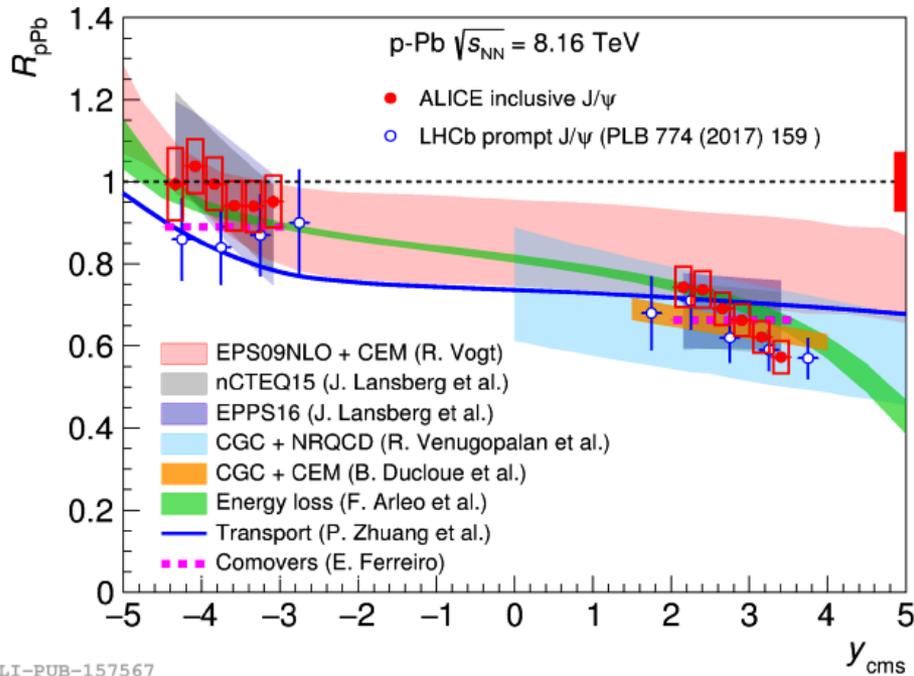
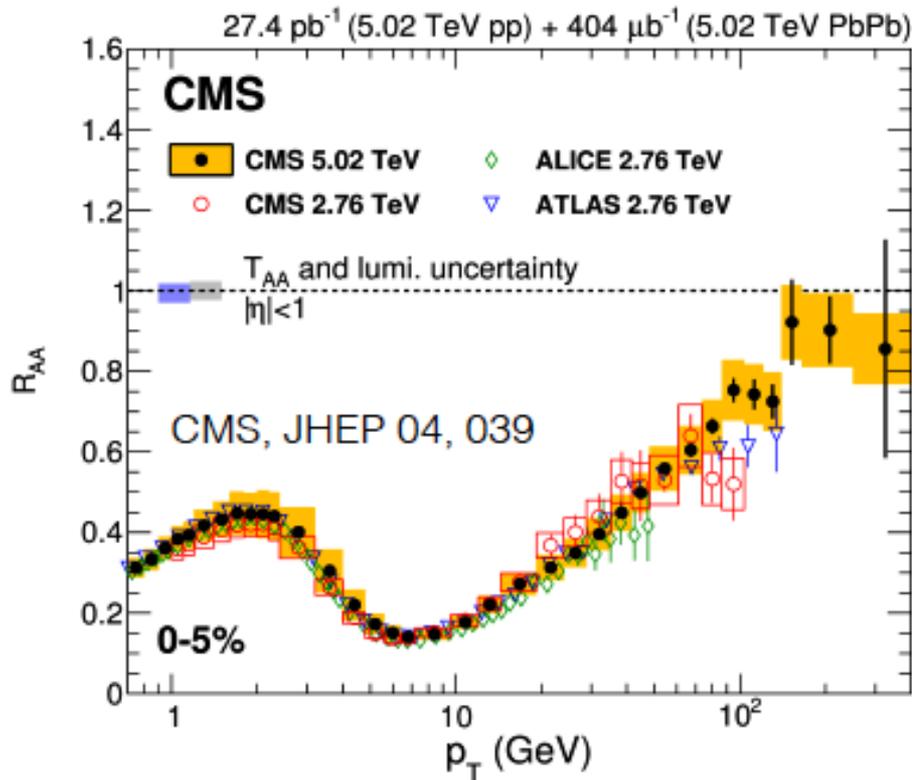# 8. Why is $R_{pPb} < 1$ in forward rapidity?
(Talk by Thomas Peitzmann)

9. What are the sources of uncertainties in gluon PDF?

CMS Collaboration, CERN-EP-2018-076

CMS pPb 8.16 TeV

$185 \leq N_{trk}^{offline} < 250$, $-1.46 < y_{cm} < 0.54$

D^0
K_S^0 Ξ^-
Λ Ω^-

v_2

p_T (GeV)

10. Why is there a transition in v_2 at p_T range between 2 and 4 GeV ?

(Talk by Thomas Peitzmann)

Charged particle R_{AA}

27.4 pb^{-1} (5.02 TeV pp) + 404 µb^{-1} (5.02 TeV PbPb)

CMS

●	CMS 5.02 TeV	◇	ALICE 2.76 TeV
○	CMS 2.76 TeV	▽	ATLAS 2.76 TeV

T_{AA} and lumi. uncertainty

$|\eta|<1$

CMS, JHEP 04, 039

0-5%

R_{AA}

p_T (GeV)

RHIC $\hat{q}$ = 1.2 ± 0.3 GeV^2/fm   (T_i = 370 MeV)

LHC: $\hat{q}$ = 1.9 ± 0.7 GeV^2/fm   (T_i = 470 MeV)

11. Why R_{AA} is suppressed particularly in mid p_T range here?
(Talk by Marco van Leeuwen)

12. How has initial T been extracted?

13. Why is Drell-Yan measurement not accessible in p-A collision?