[HIN-14-009]
status

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lab meeting
14th July 2016

Status

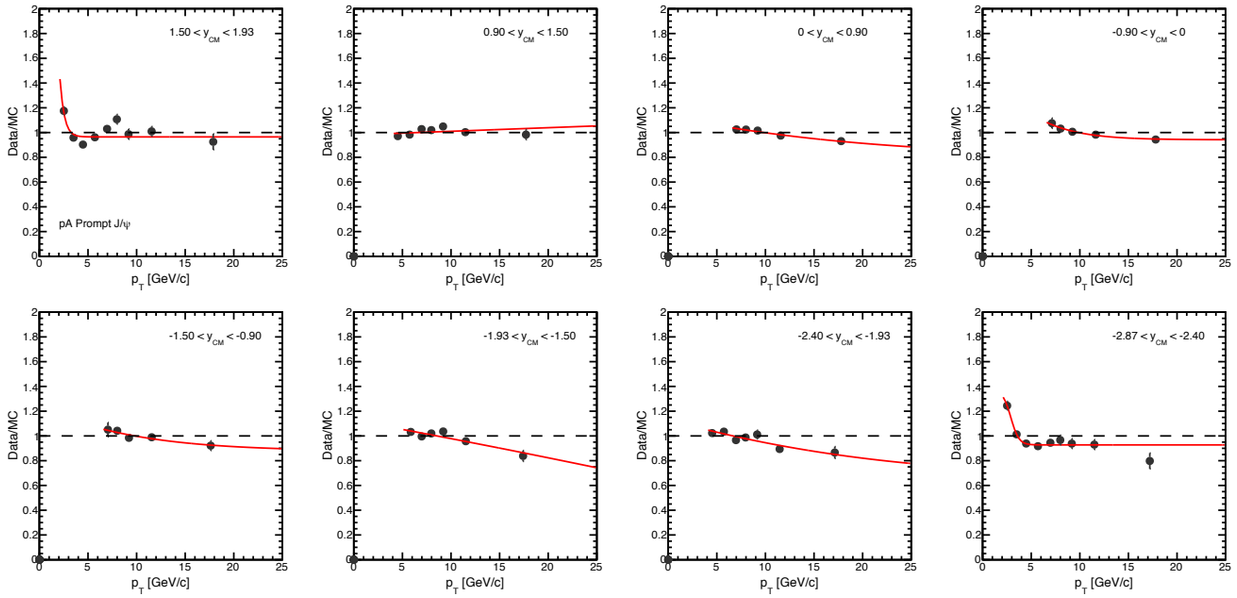
- AN and PAPER frozen last Tuesday! :)

- Latest update
  - tag pT changed
  - dN/dPt reweight done (negligible effects on final plots)

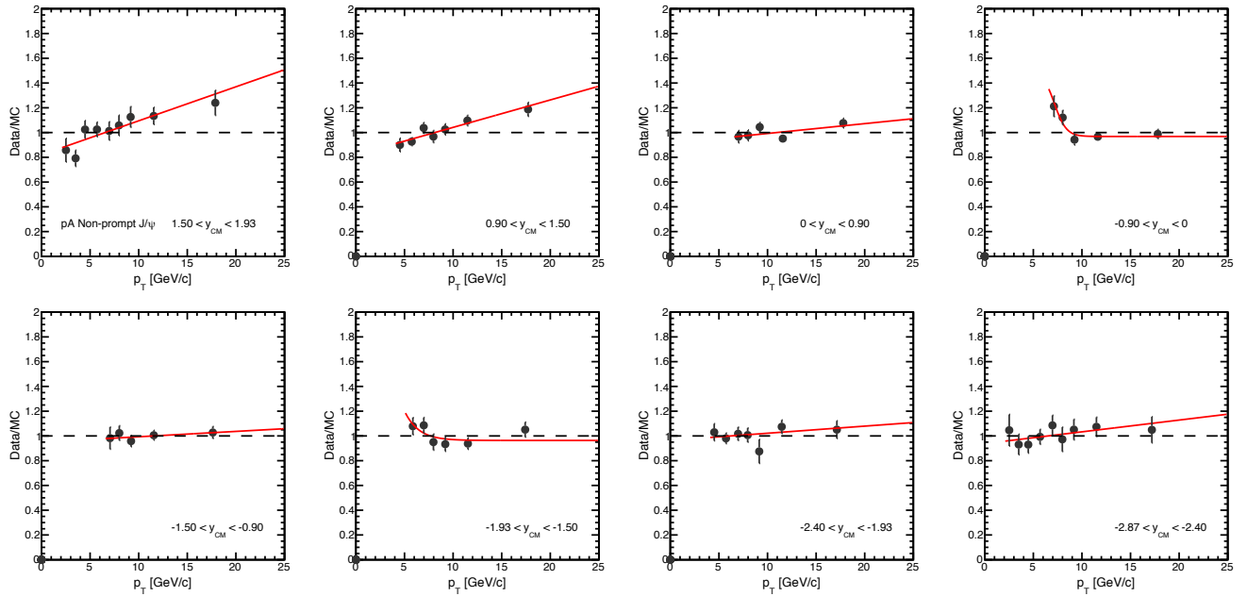
- To-do
  - systematic uncertainties are not included yet
  - pp luminosity will increase (finalized within 2-4 weeks)
  - comparison plots (not necessary for PAPER)

dN/dPt weight

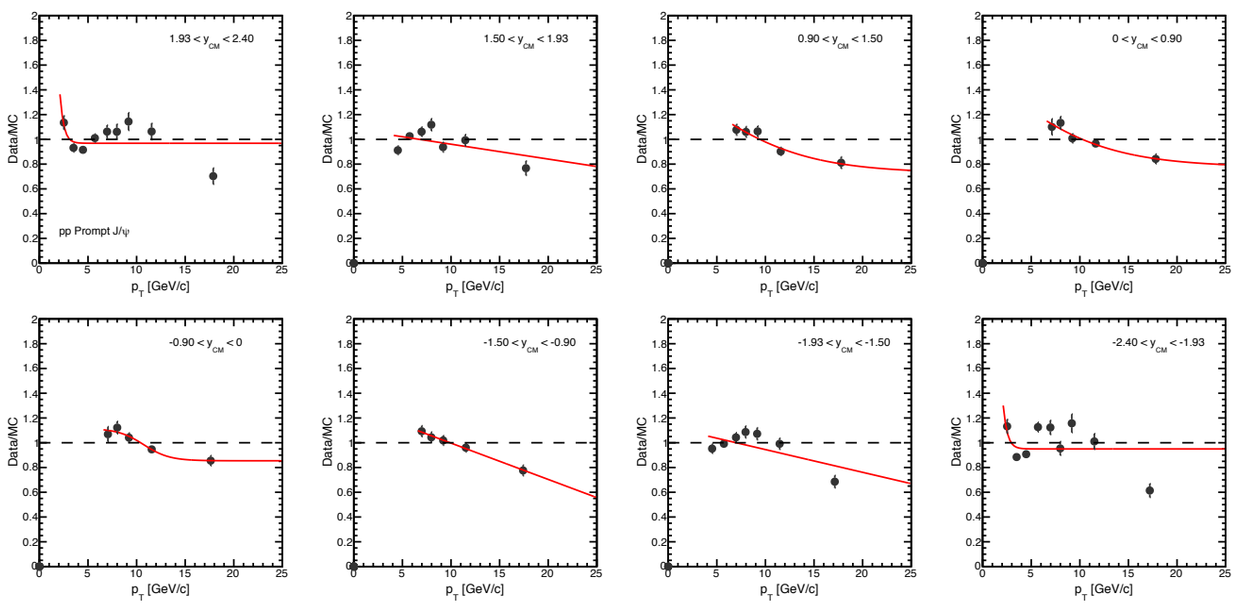
pA prompt



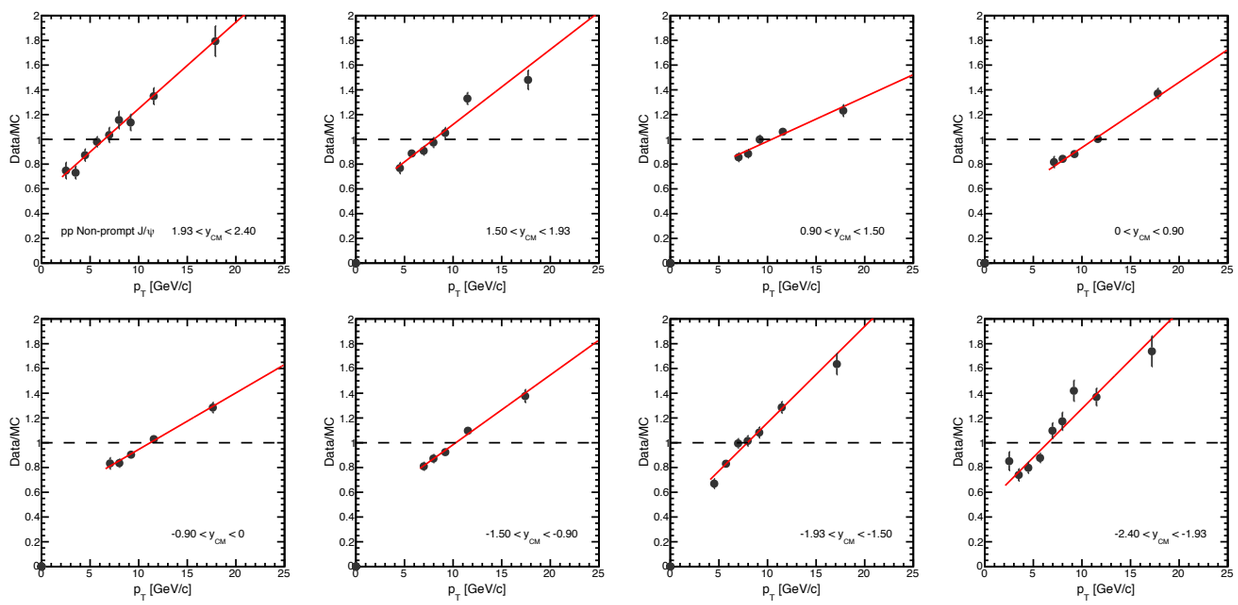
pA non-prompt



pp prompt

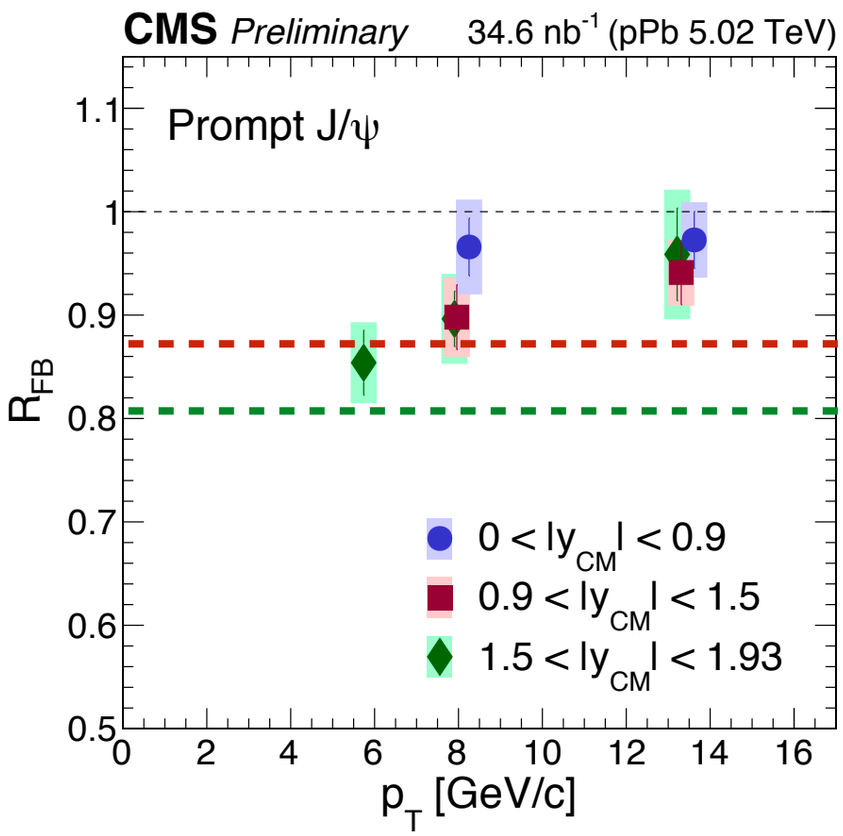


pp non-prompt

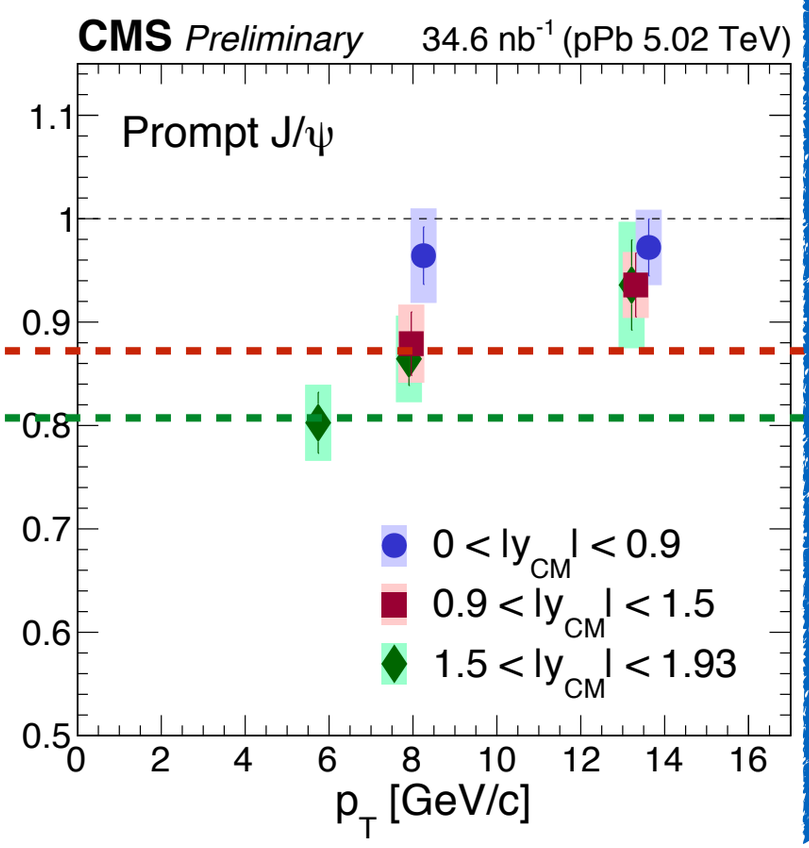


new TNP SF with tag p_T = 5 GeV

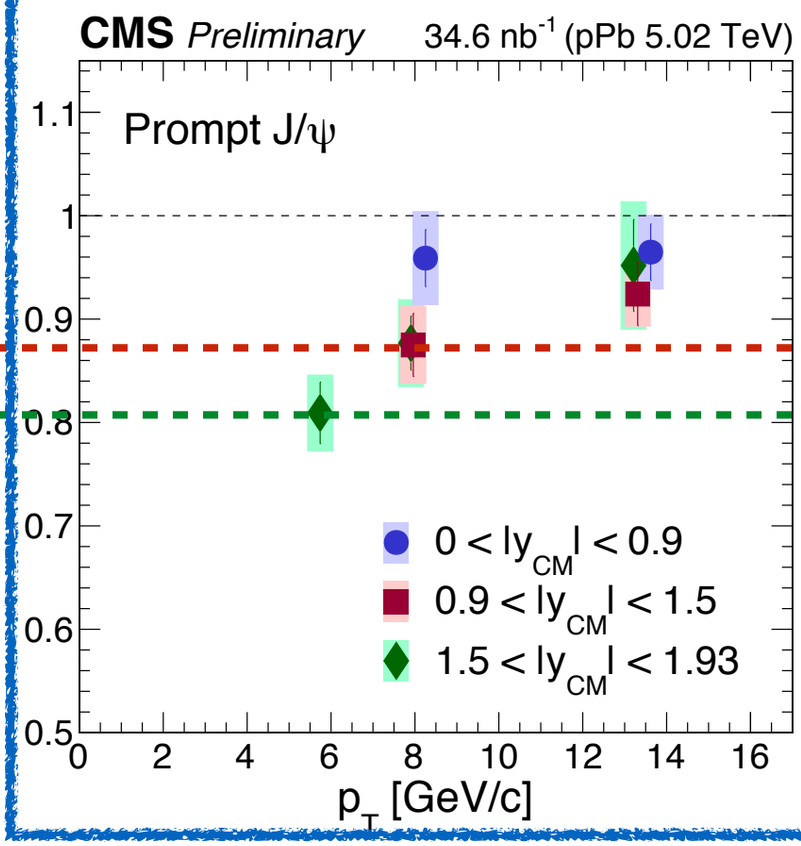
all tag 3 GeV



forward tag 5 Gev



all tag 5 GeV

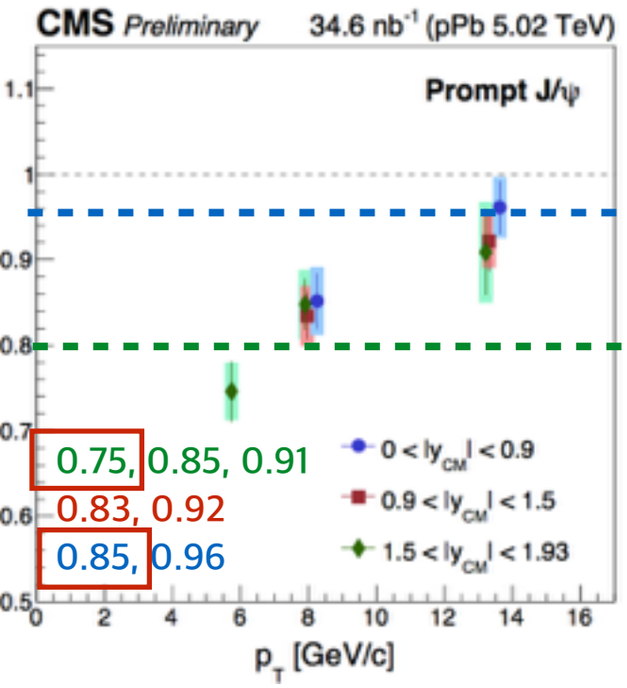


- mid-eta regions are not affected by tag pT
- lowest pT bin comes down (R_{FB} = 0.85 -> 0.80)

new TNP SF with tag p_T = 5 GeV

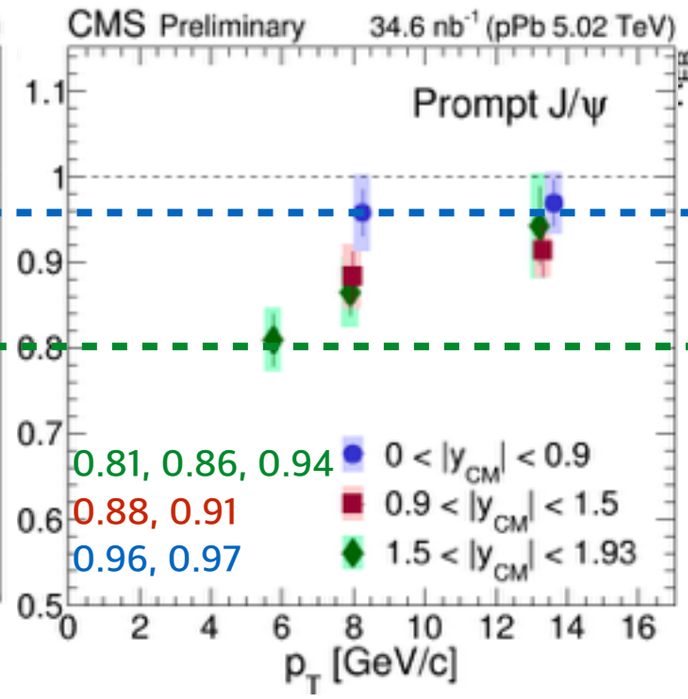
- Reminder of step-by-step comparison from PAS to up-to-date

A (PAS)



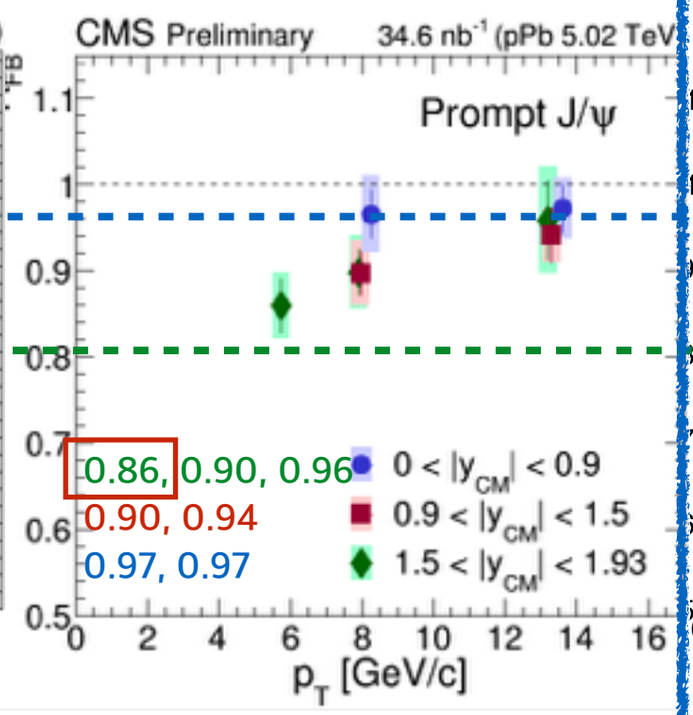
- B frac. fixed
- z vtx cut
- ct err. cut
- separate fit (Pbp,pPb)
- private MC
- old acc. cut

F



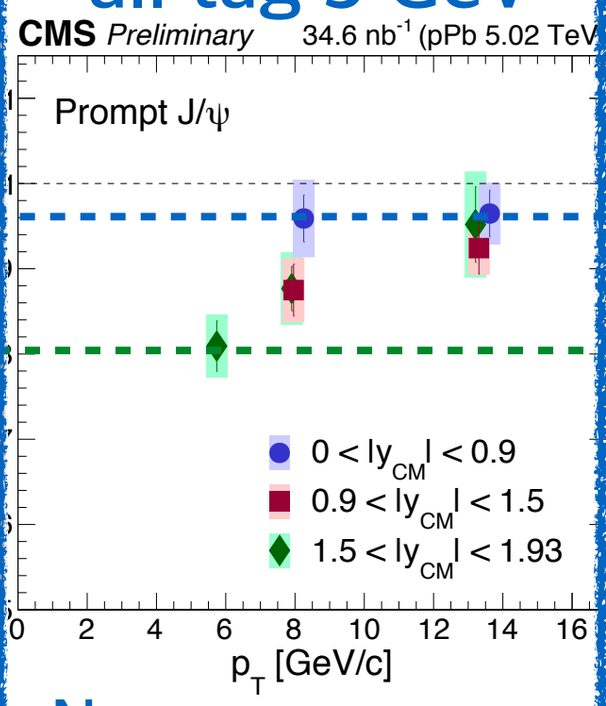
- B frac. free
- No z vtx cut
- No ct. err cut
- merged fit (Pbp,pPb)
- new MC
- old acc. cut

G (NEW)



- B frac. free
- No z vtx cut
- No ct. err cut
- merged fit (Pbp,pPb)
- new MC
- new acc. cut

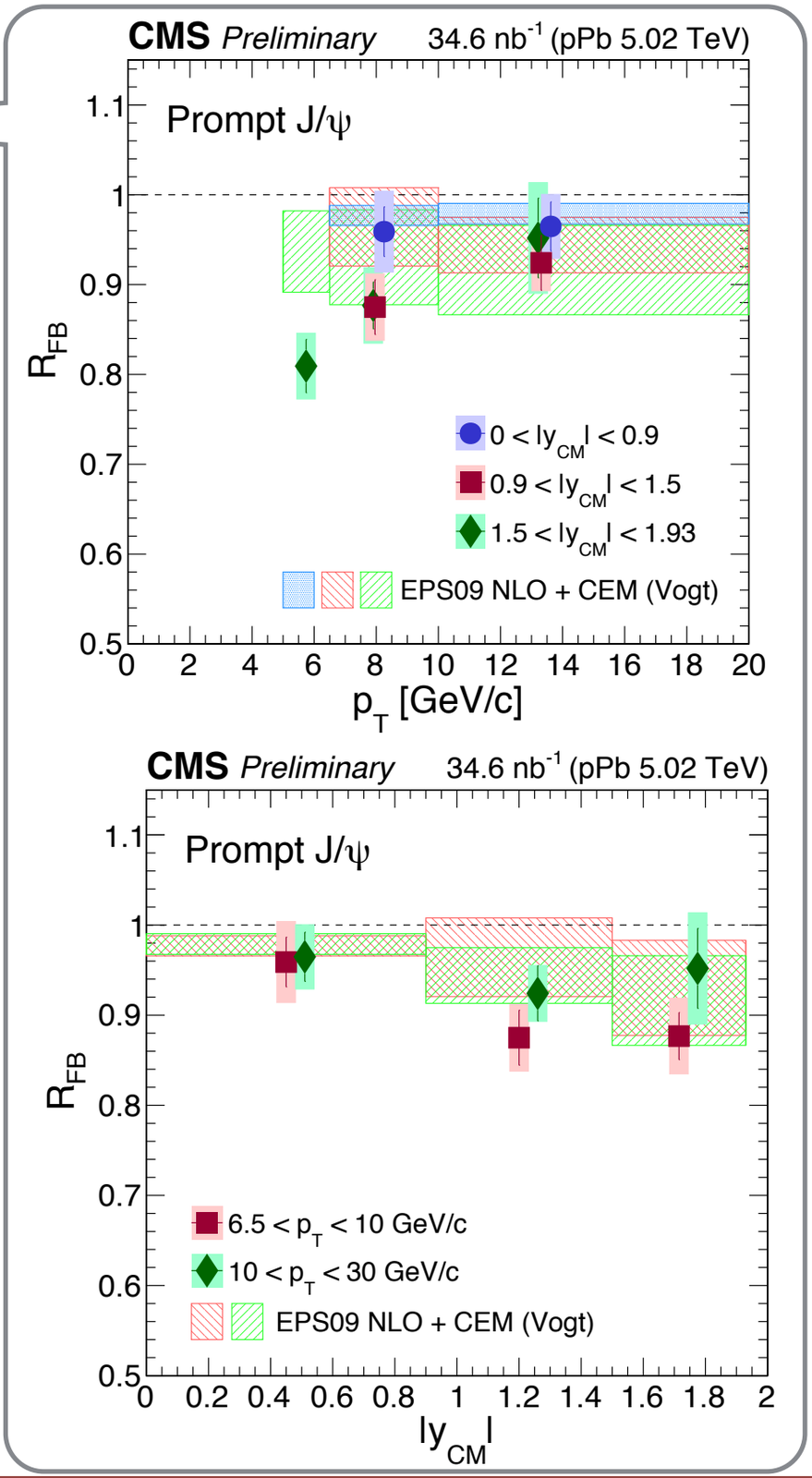
NEW! all tag 5 GeV



Now,
no big difference
between
old acc cut (F)
and
new acc cut

gift from SQM

- Discussion with Ramona for EPS09
  - Discrepancy at low pT not surprising
  - Calculation for R_{pPb}, smoothened in pT
  - timeline ~ end of July

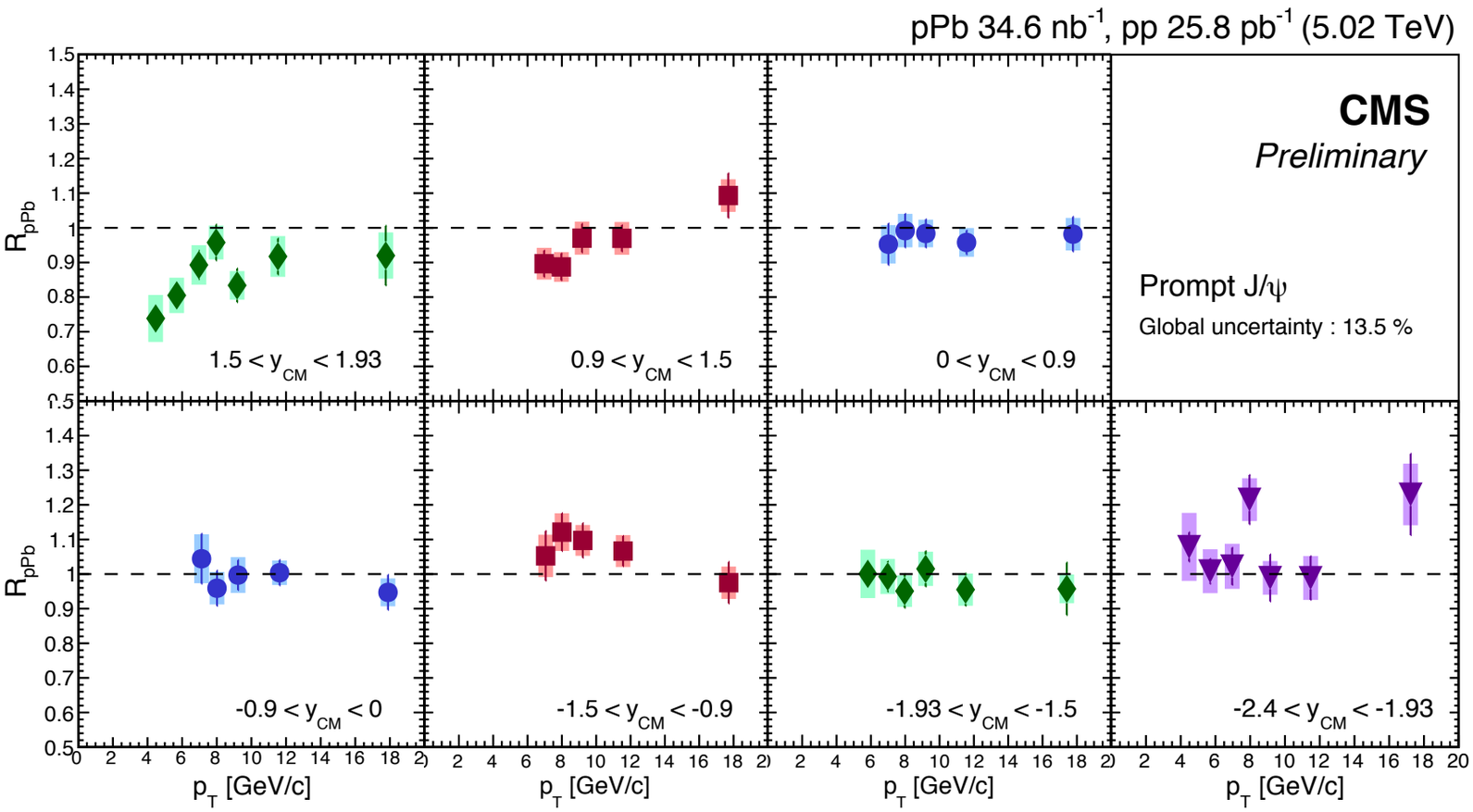


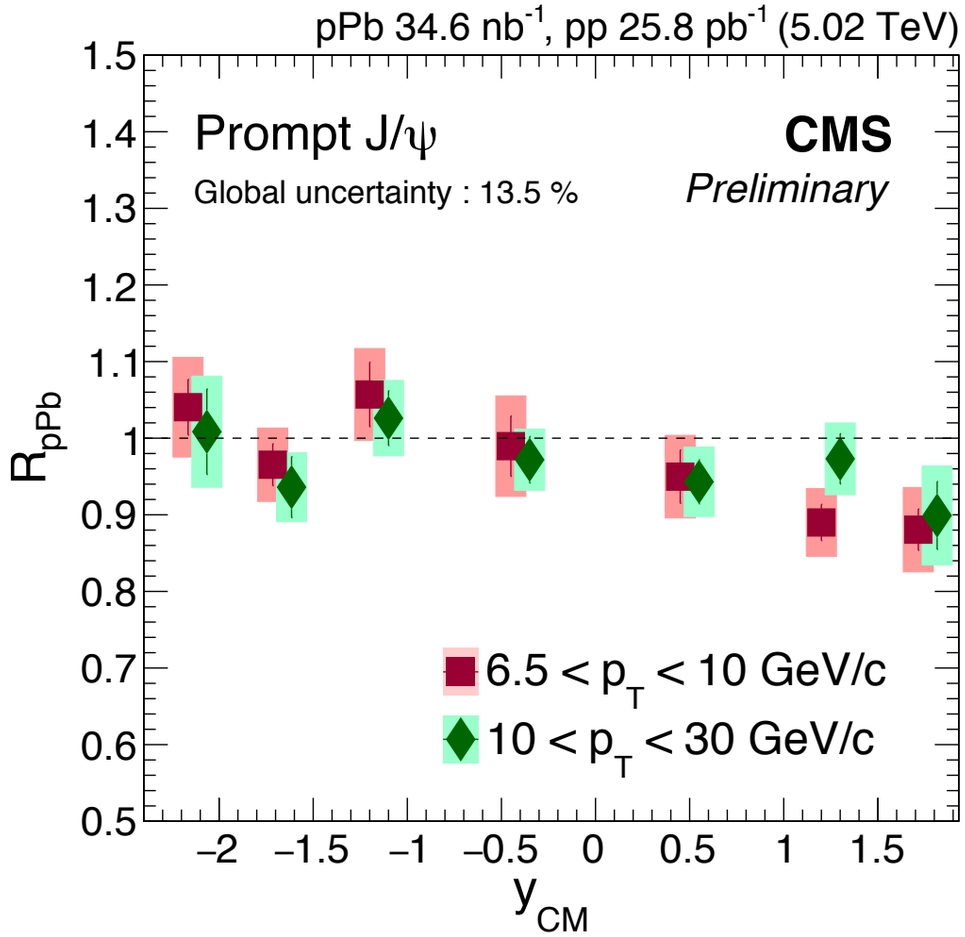
- Discussion with Qipeng (ATLAS pPb J/psi)
  - NLO NRQCD for pp 5.02 TeV (Huasheng Shao)

- Else
  - contact with Lansberg (EPS09 + COM)
  - comparison with B meson R_pPb

PAPER plots

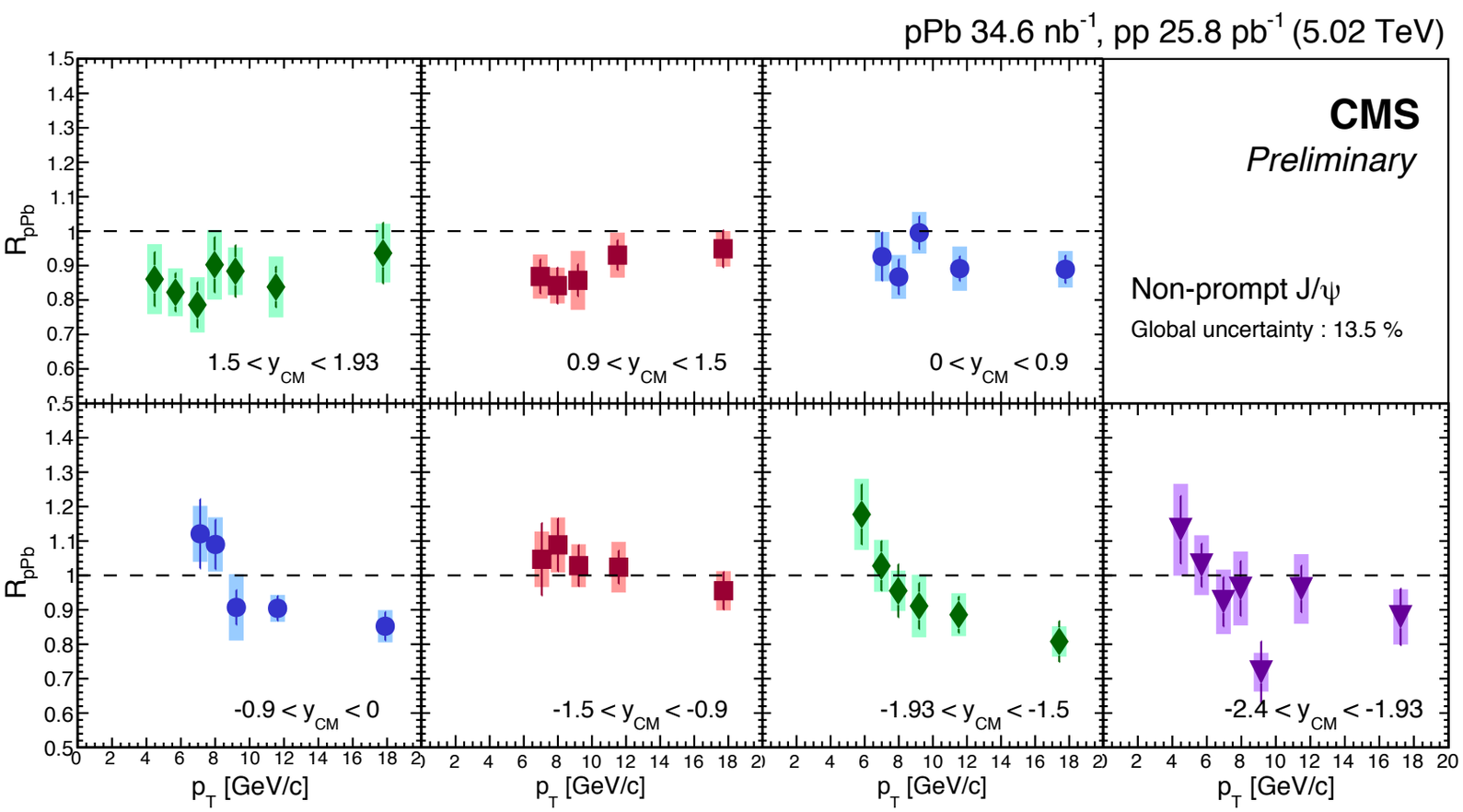
prompt R_pPb

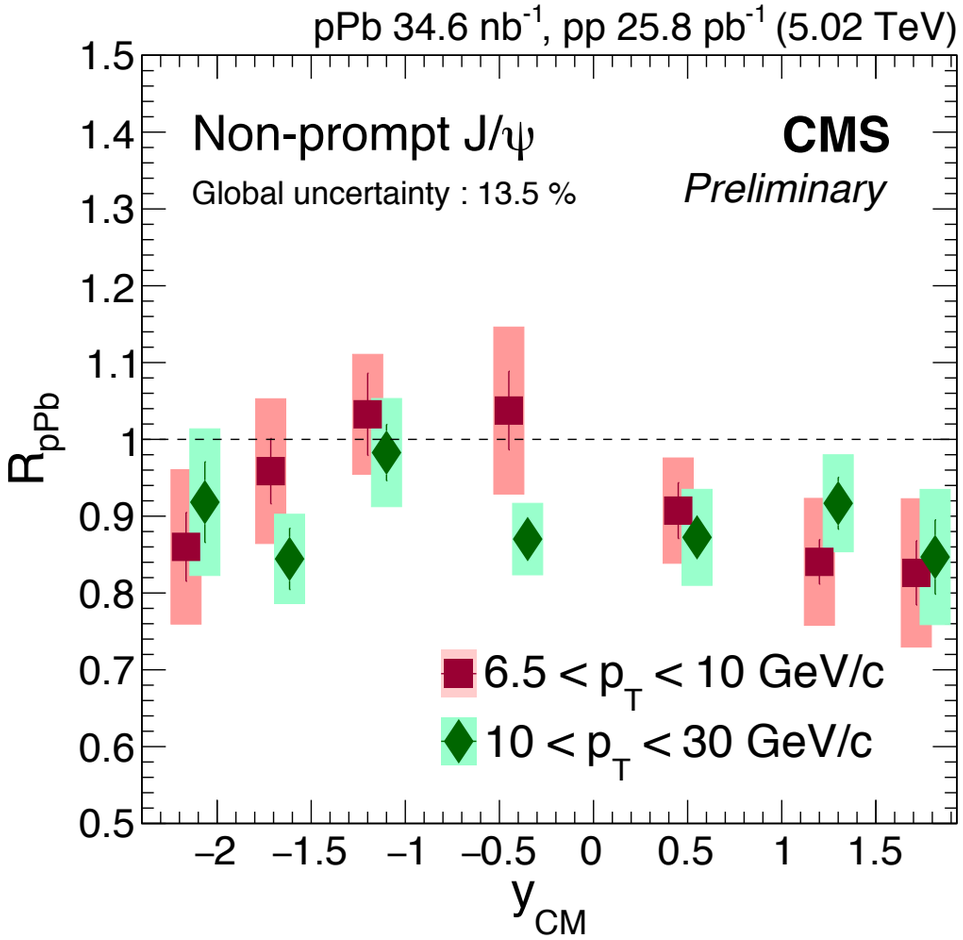




- R_{pPb} decrease (0.74) at low p_T in forward y
- R_{pPb} consistent with unity (1.07) at the same low p_T in backward y
- No strong p_T or y dependence at p_T > 6.5 GeV (slight y dependence?)

non-prompt R_pPb

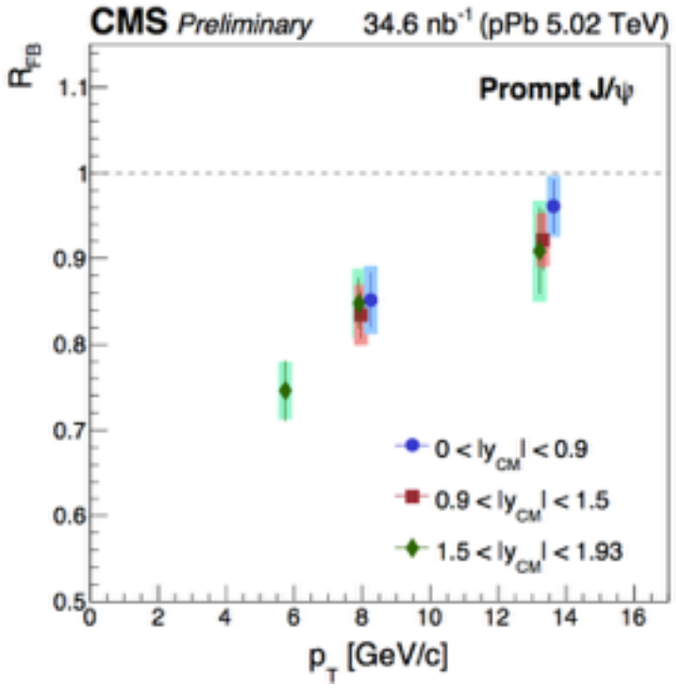


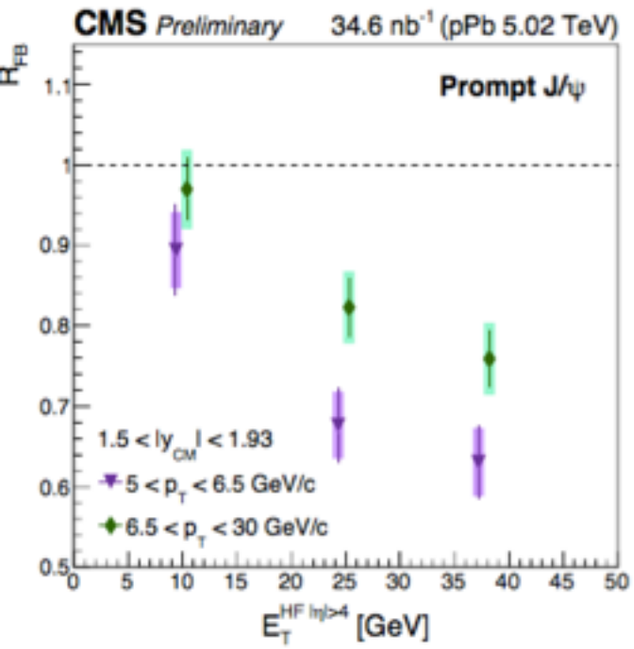


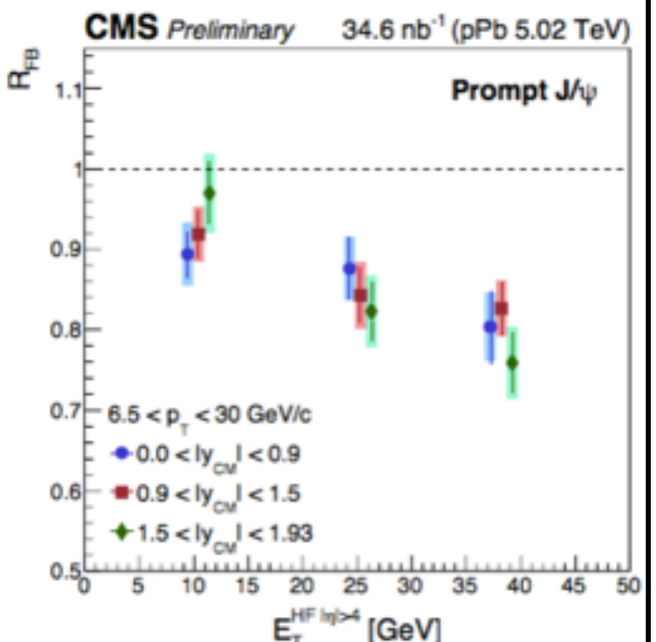
- R_{pPb} consistent with unity over the whole kinematic ranges
- No strong p_T or y dependence

prompt R_FB

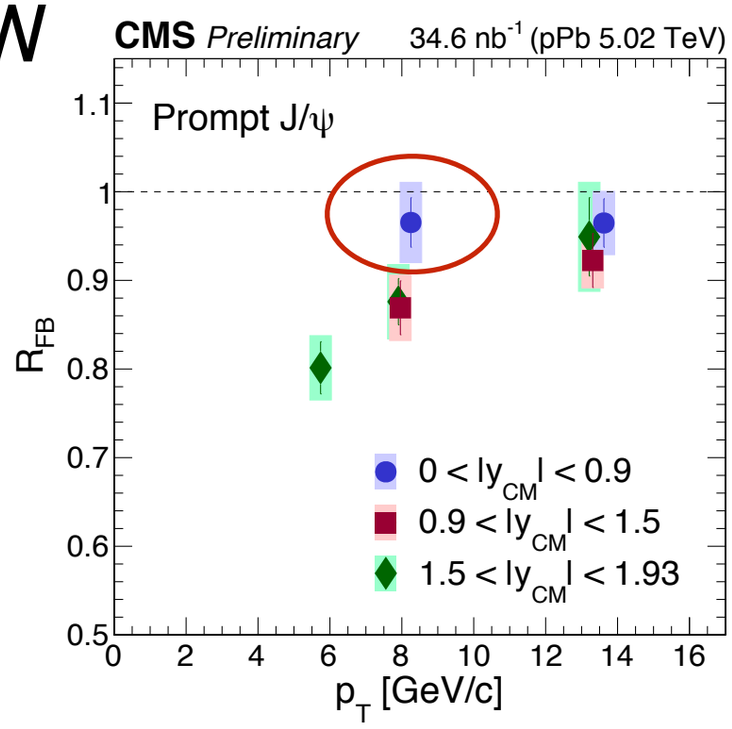
- PAS

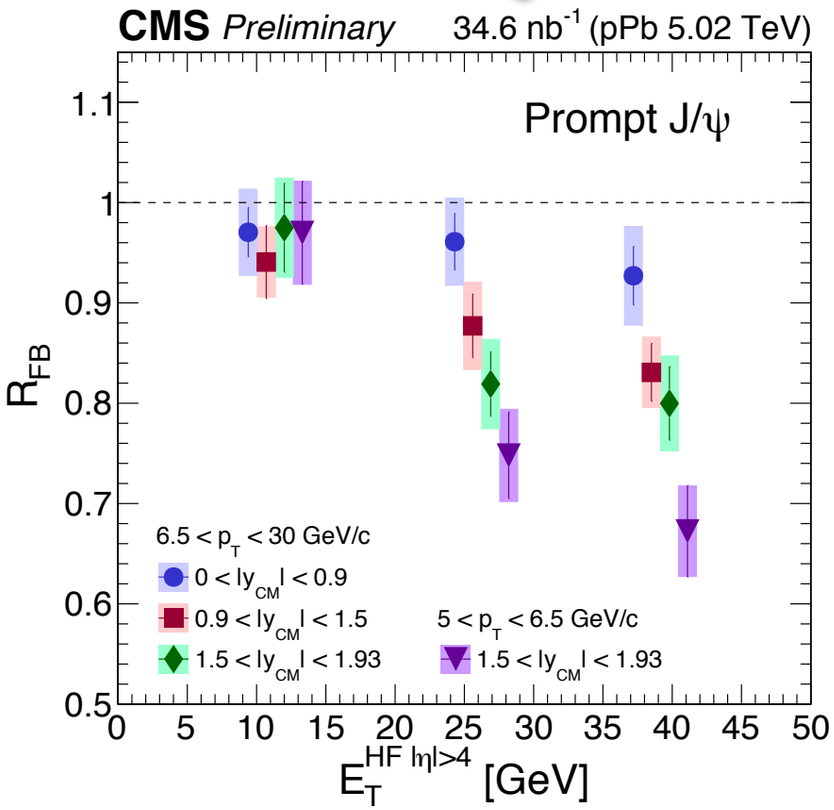




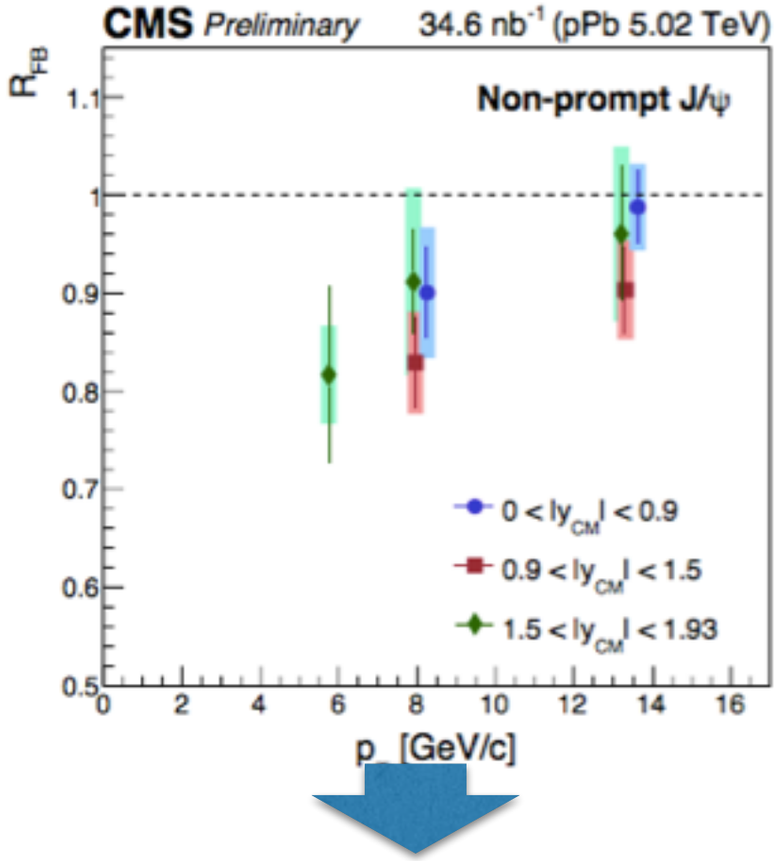


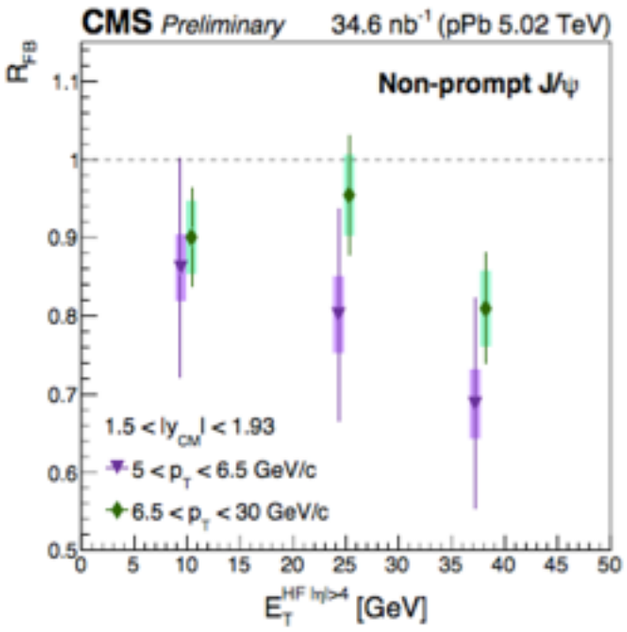
- NEW

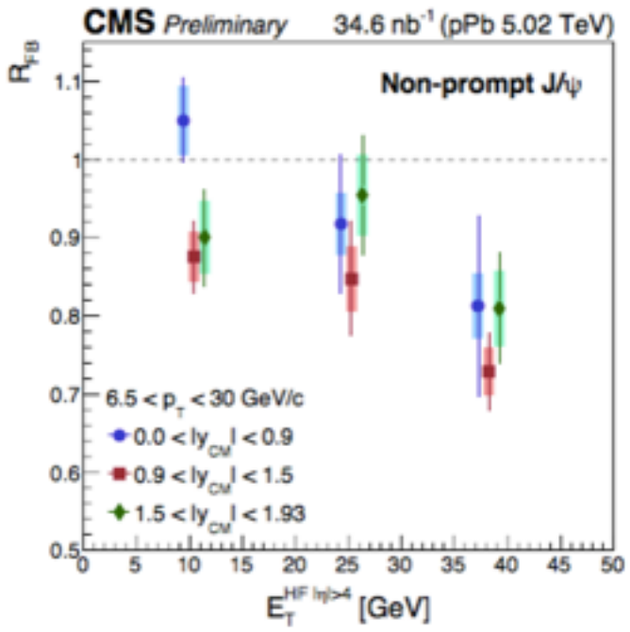


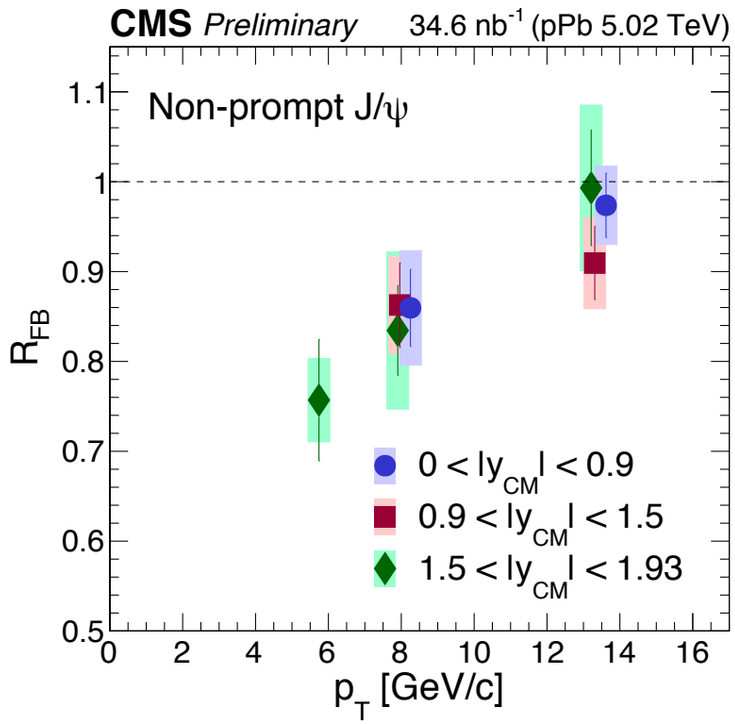


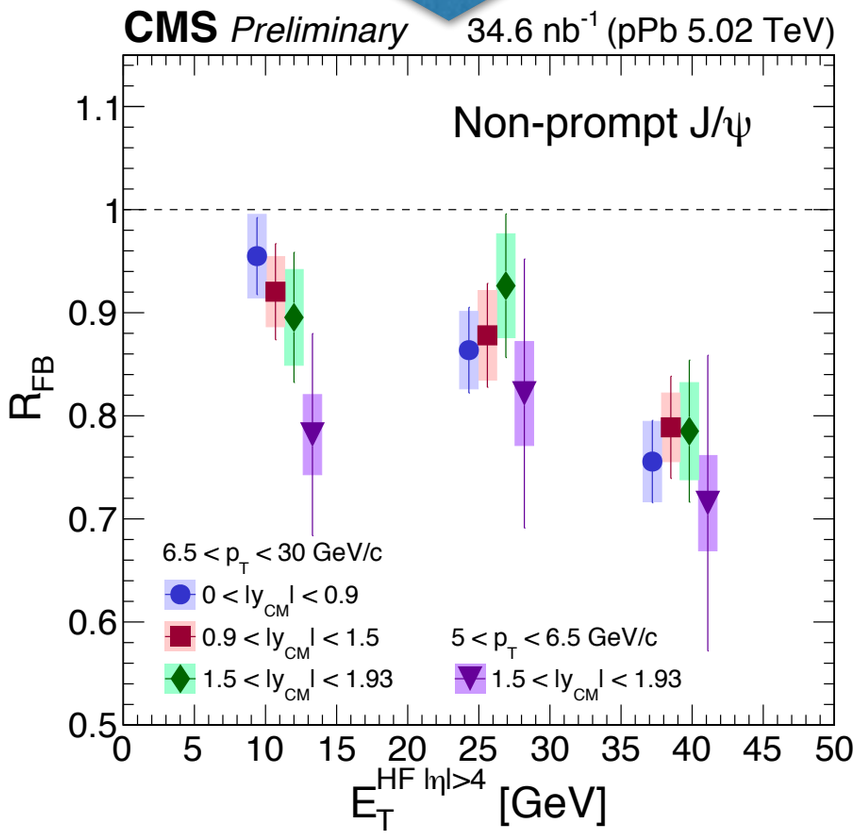
non-prompt R_pPb











Back up