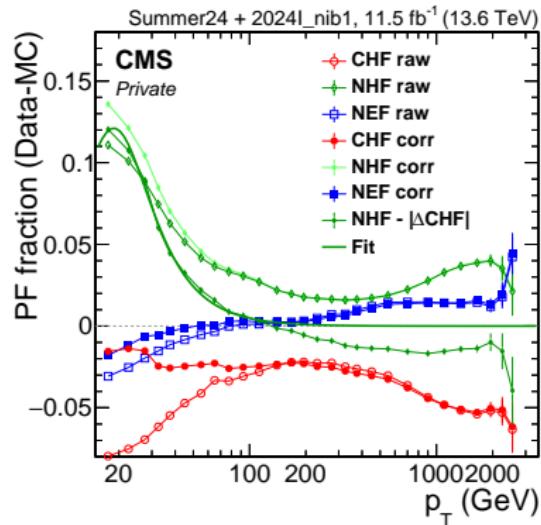
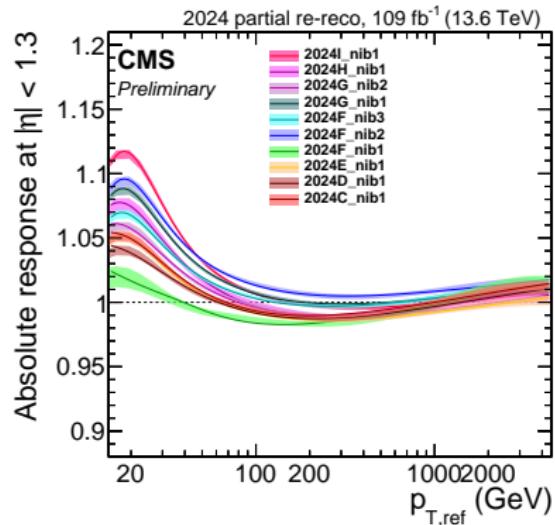


## (L2)L3Res on ReReco24 (new: V9M, ref: V8M)

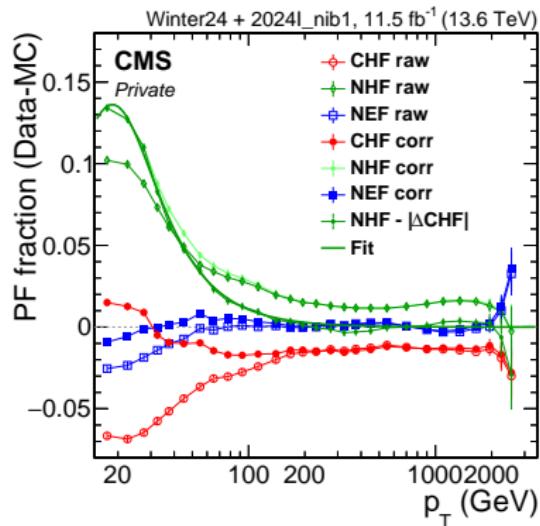
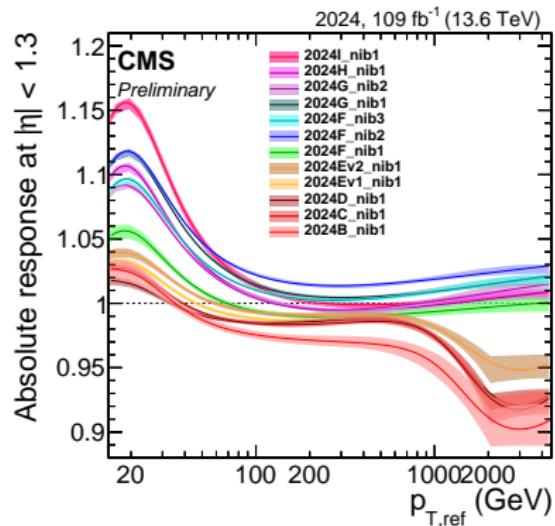
Date: June 9, 2025

- ▶ 2024CDE re-reco & 2024FGHI prompt + Summer24 JEC
- ▶ Updated “off\_nhf” shape from 2024I PF composition data
- ▶ Switched off Z-avgpt and Z-jetpt options for simplicity
- ▶ MinBias  $\sigma_{MB} = 69.2$  mb, input JEC V8M
- ▶ JMENANO samples (affected at least Z+jet at low  $p_T$ )
- ▶ 2024F\_nib1 still has HCAL\_DD ( $0.88 \text{ fb}^{-1}$ ), 2024B dropped
- ▶ Observations: high  $p_T$  CHF now worse, low  $p_T$  NHF better.  
ECALCC fixed with re-reco. Z+jet low  $p_T$  higher
- ▶ Ad-hoc corrections to  $\gamma$ +jet to match with Z+jet per era
- ▶ To-do: (i) account for photon scale drifts + QCD bkg, (ii)  
add inclusive jet and Wqq'

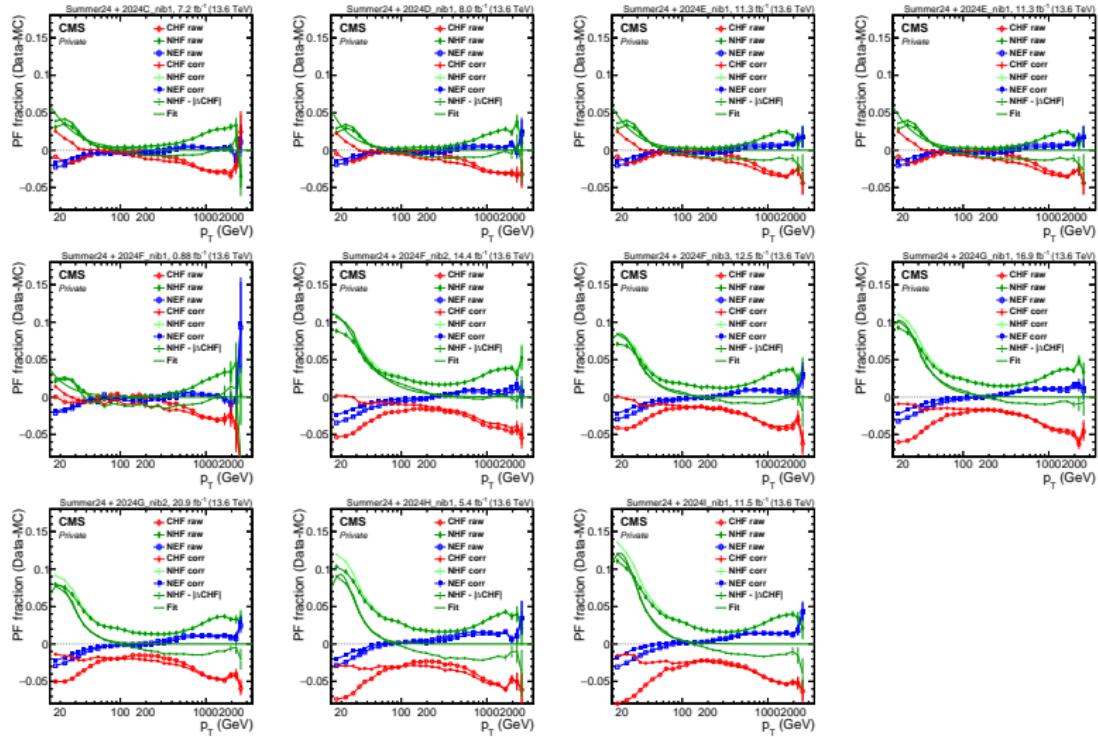
# JES L3Res fits summary (V9M)



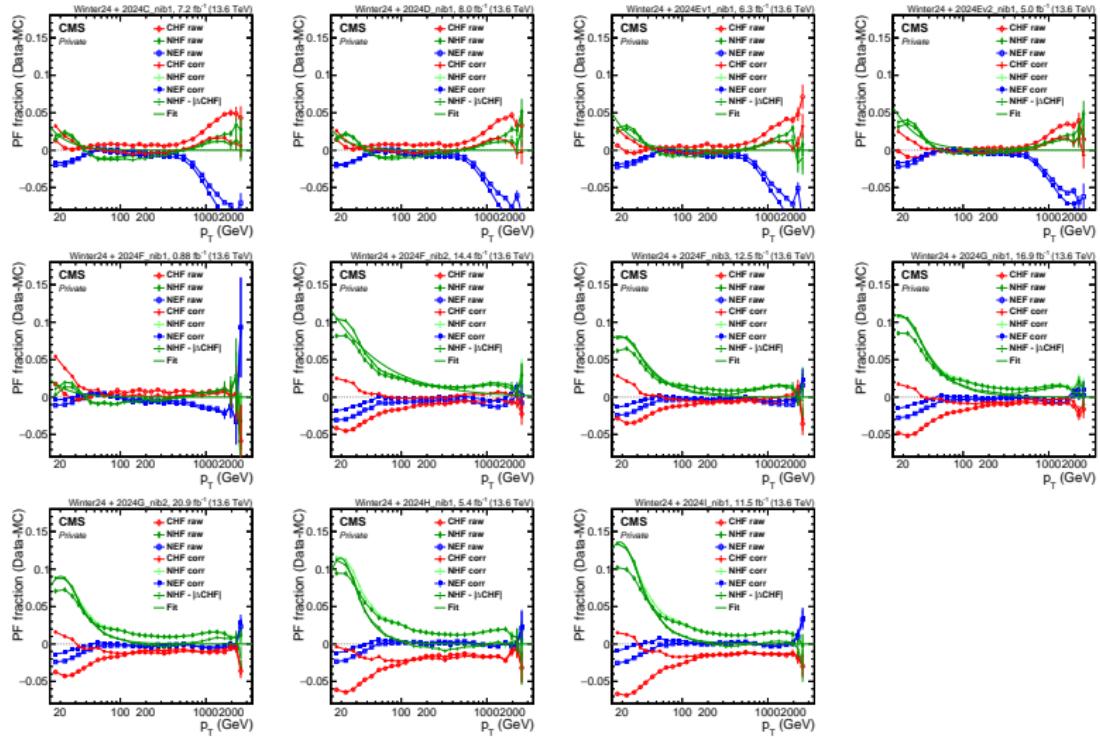
# JES L3Res fits summary (ref: V8M)



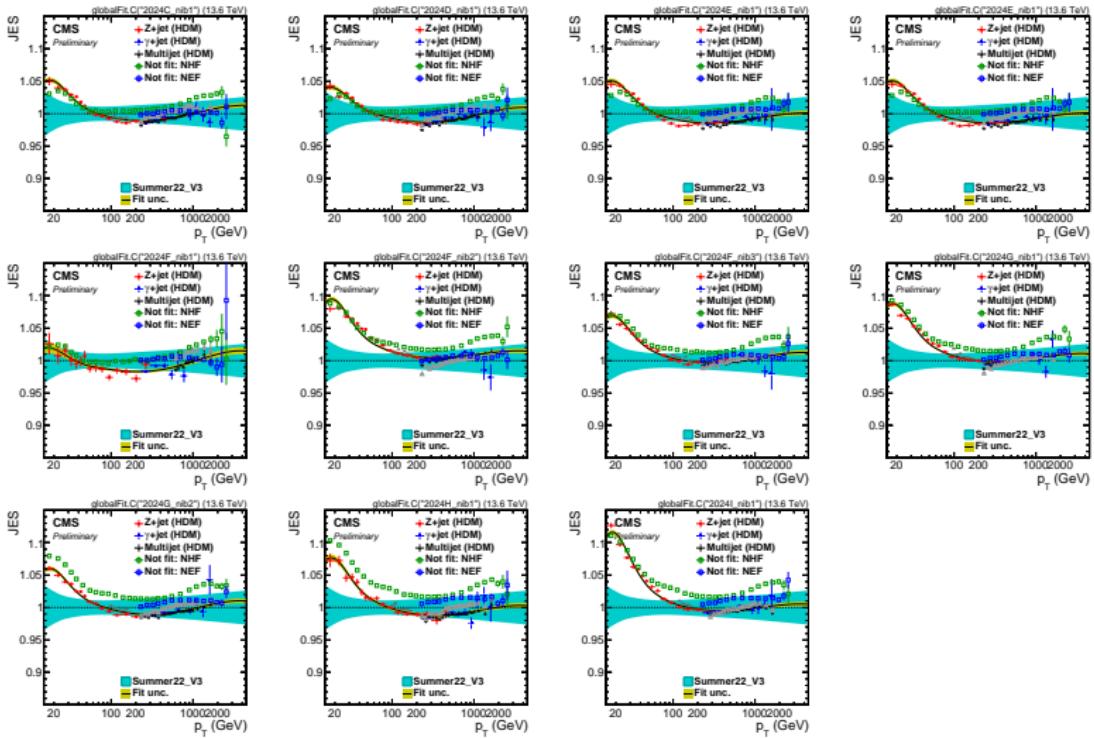
## PF energy composition (V9M)



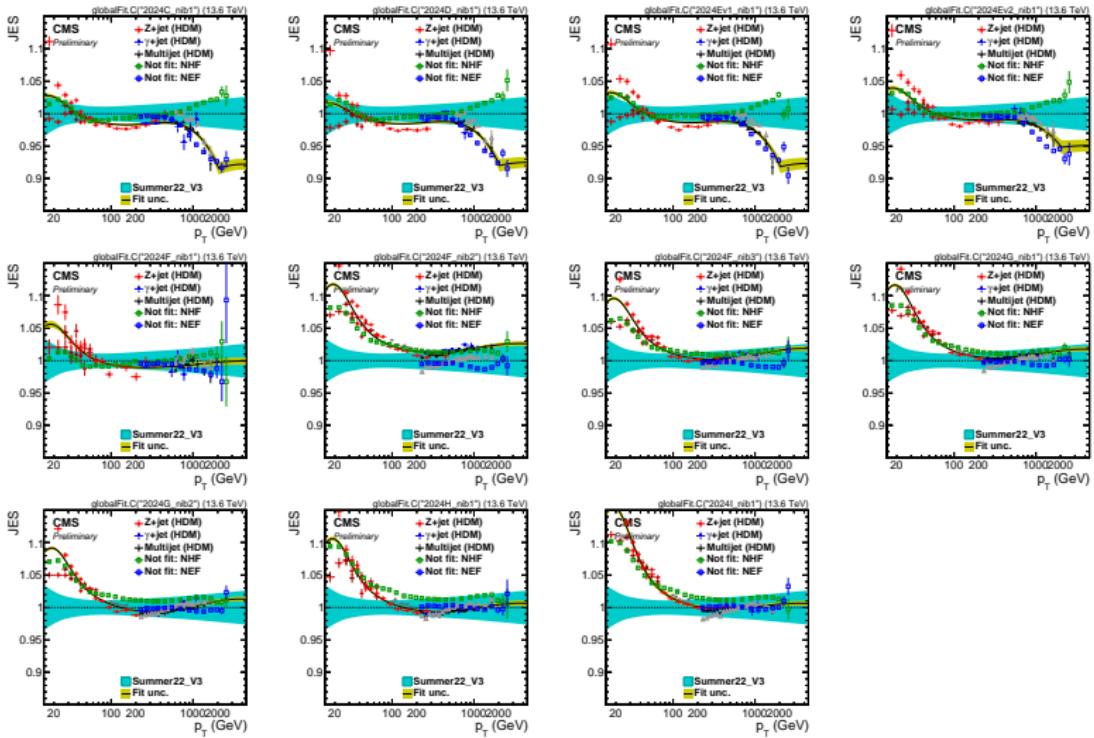
## PF energy composition (ref: V8M)



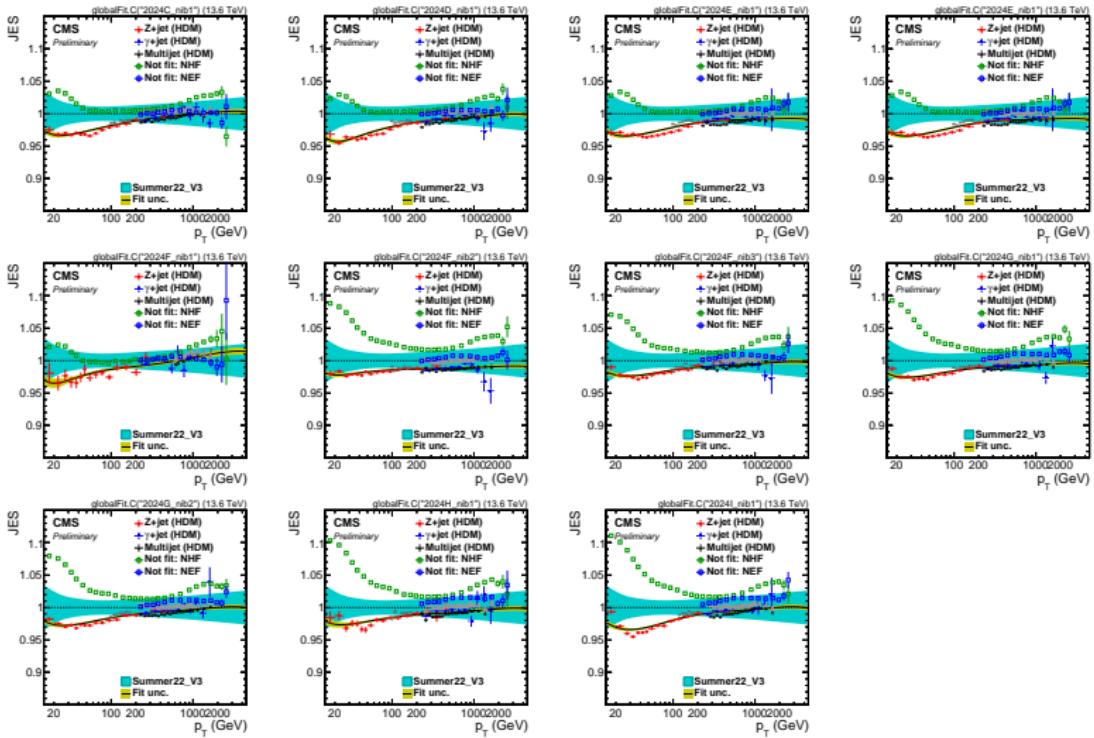
JES L3Res fits (V9M)



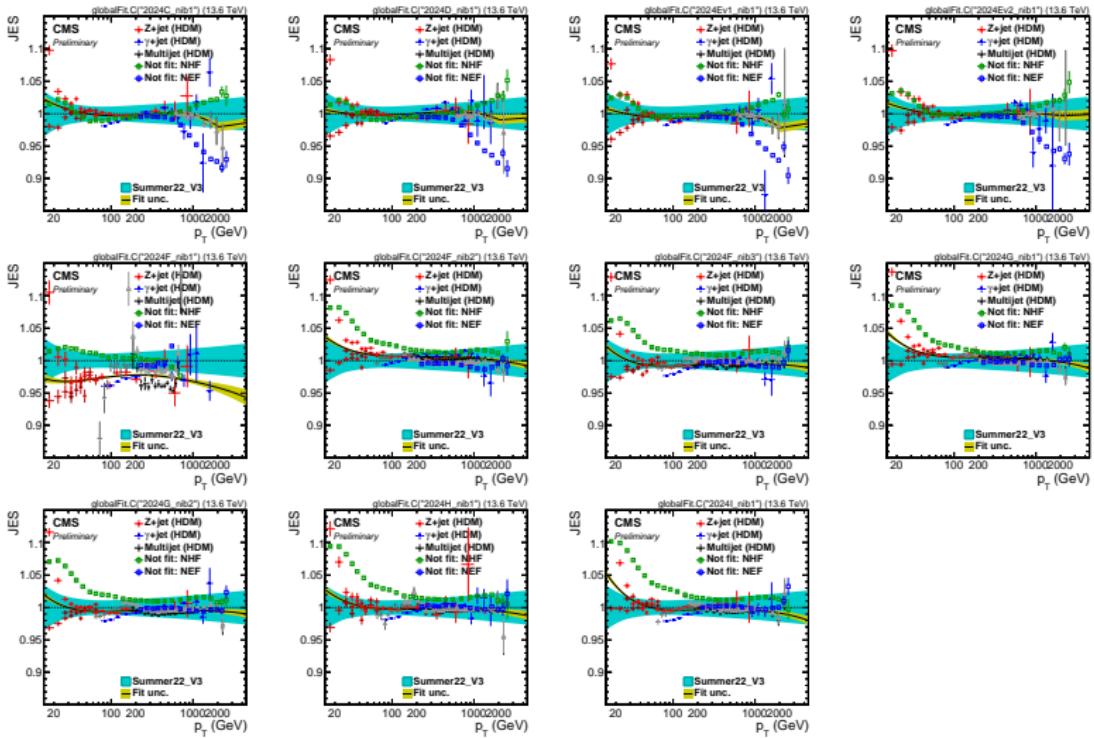
## JES L3Res fits (ref: V8M)



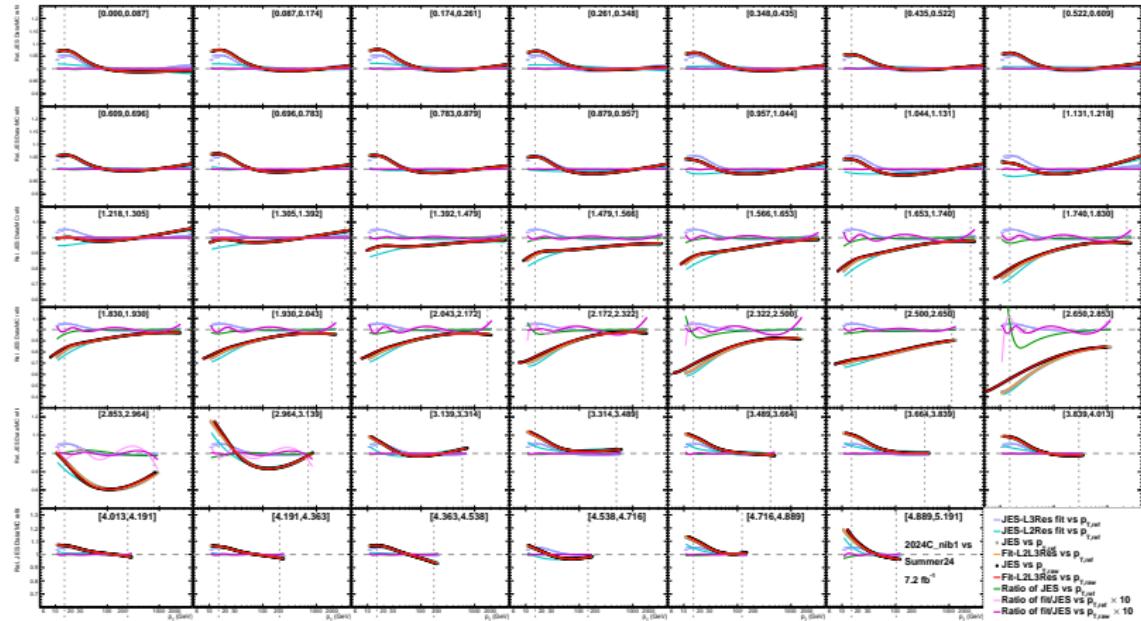
JES L3Res closure (with V8M)



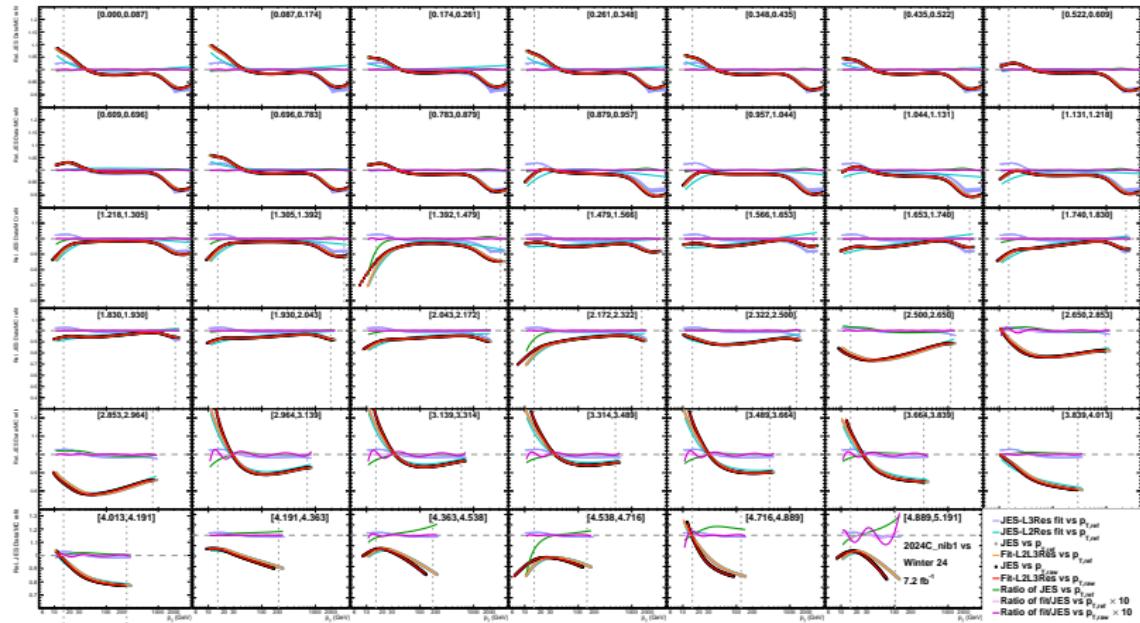
JES L3Res closure (ref: V8M)



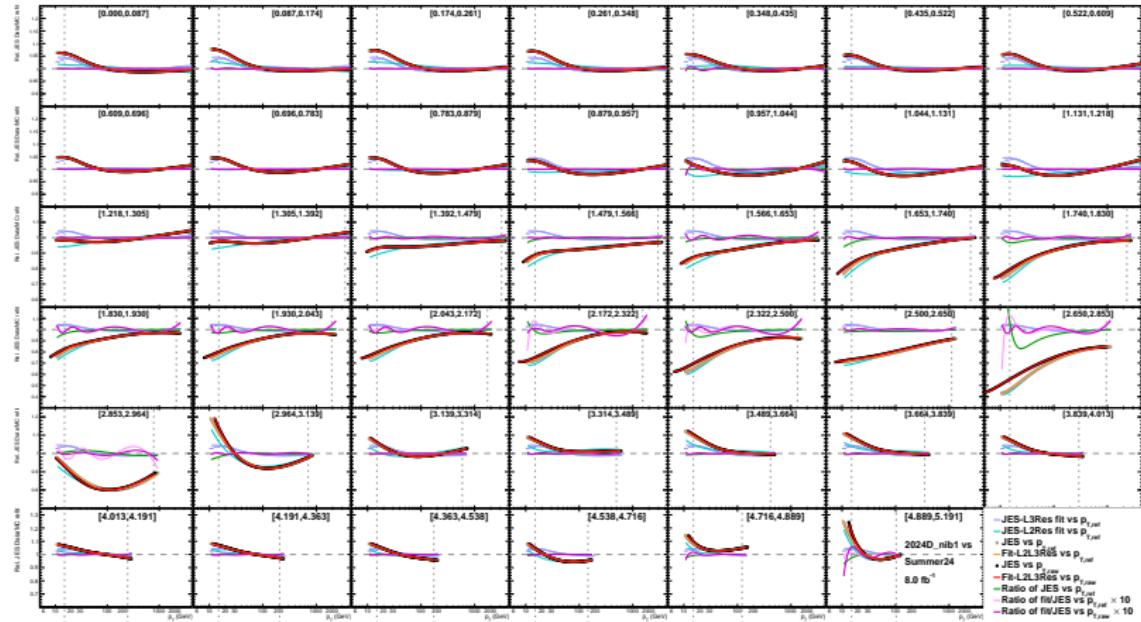
# JES L2L3Res re-fits (V9M): 2024C\_nib1



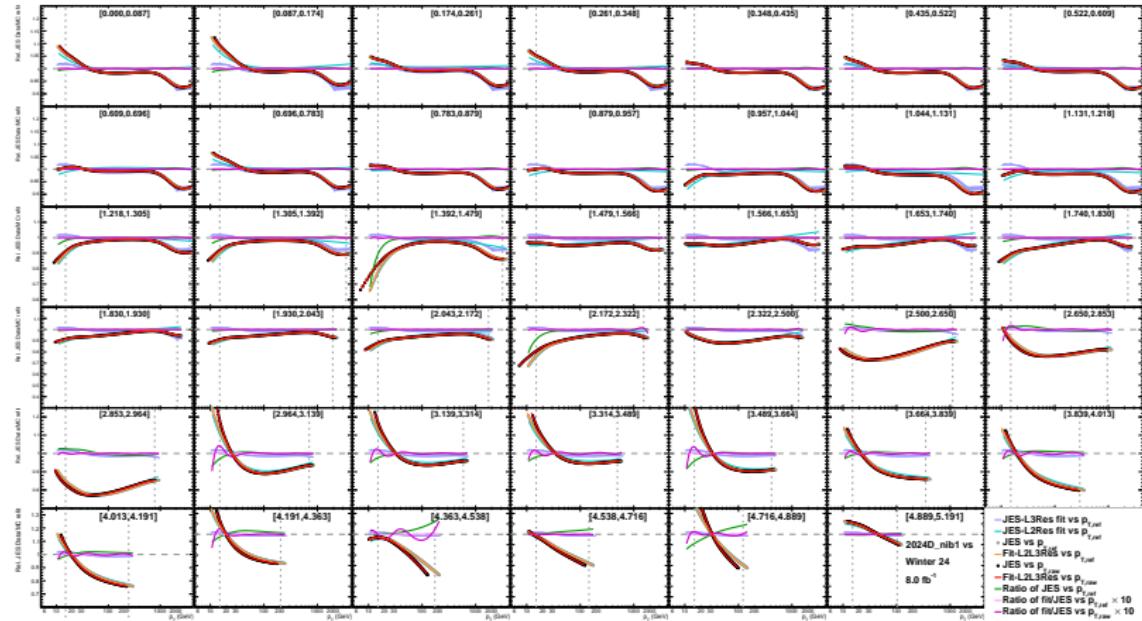
JES L2L3Res re-fits (ref: V8M): 2024C\_nib1



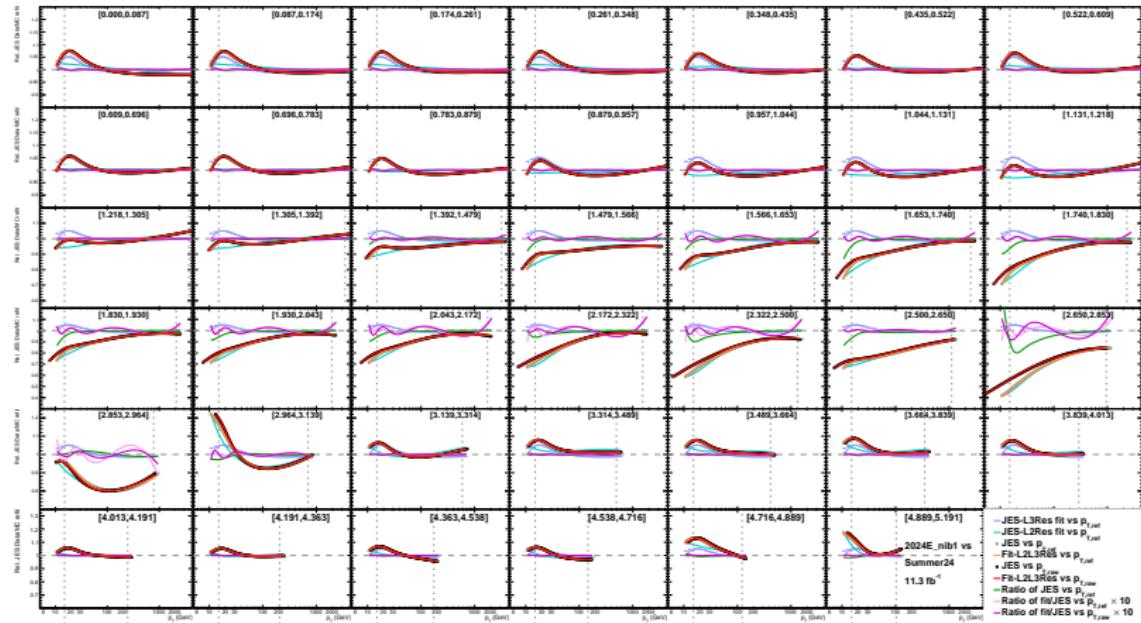
JES L2L3Res re-fits (V9M): 2024D\_nib1



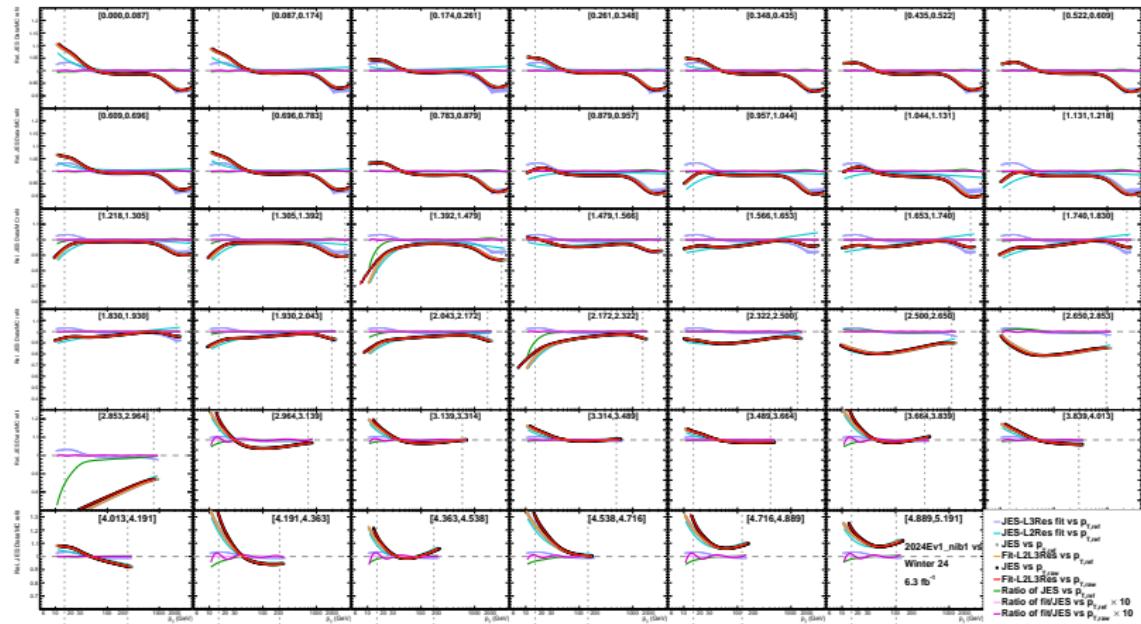
# JES L2L3Res re-fits (ref: V8M): 2024D\_nib1



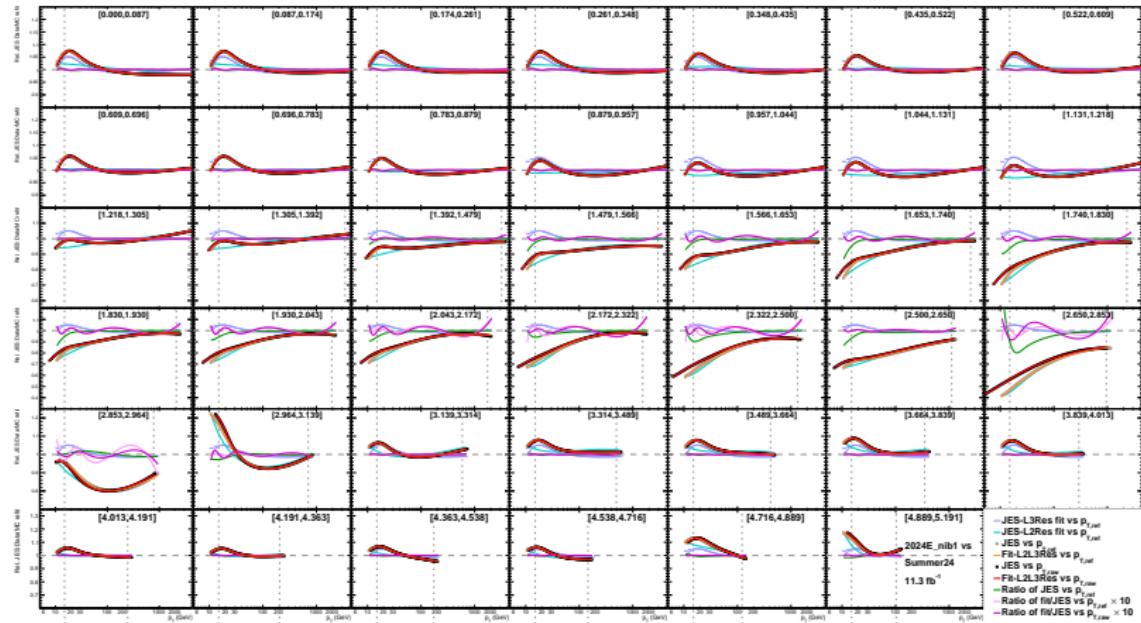
JES L2L3Res re-fits (V9M): 2024E\_nib1



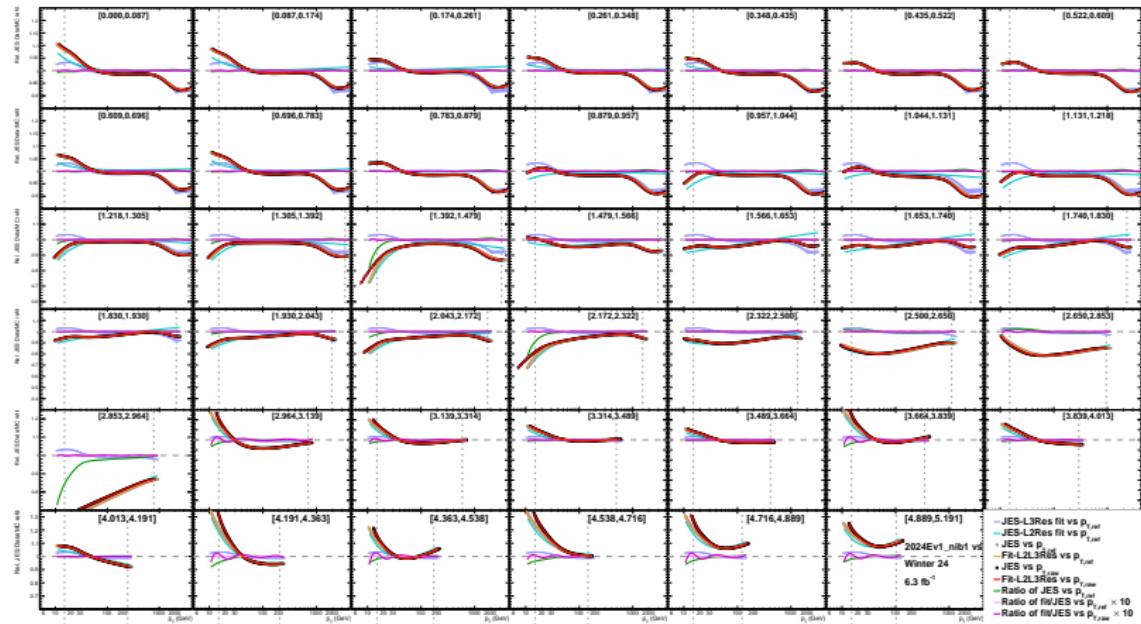
JES L2L3Res re-fits (ref: V8M): 2024E\_nib1



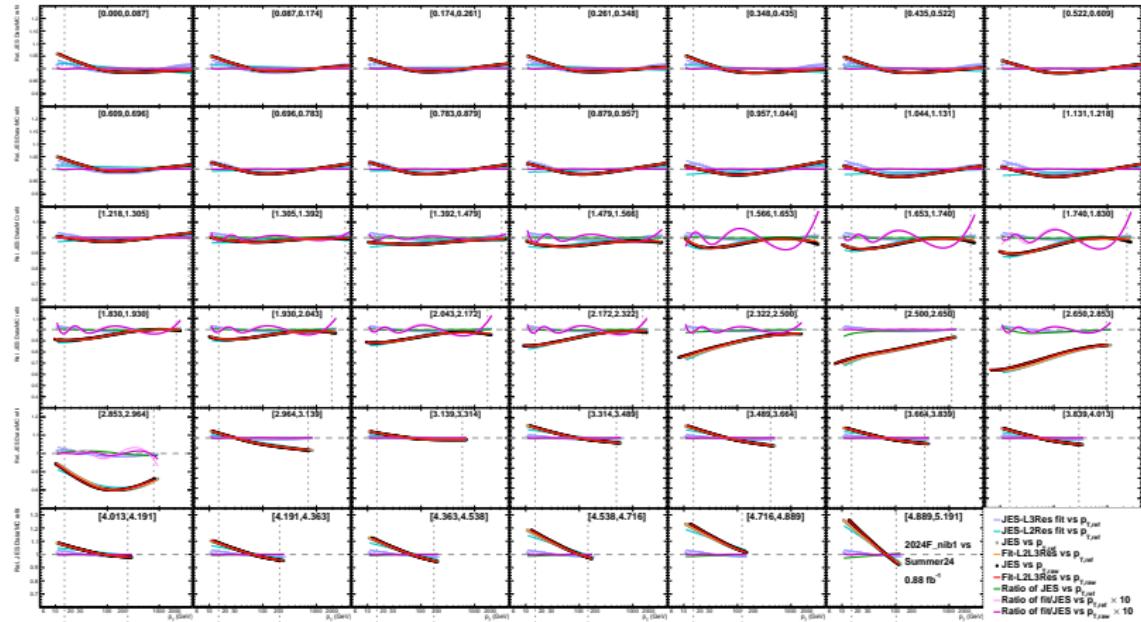
JES L2L3Res re-fits (V9M): 2024E\_nib1



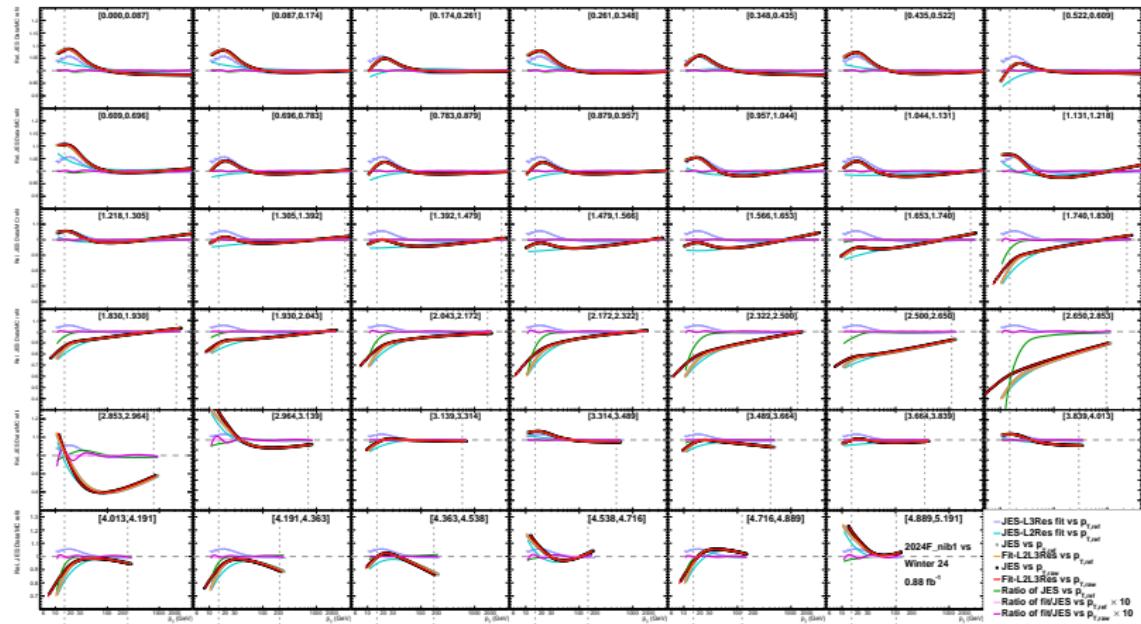
JES L2L3Res re-fits (ref: V8M): 2024E\_nib1



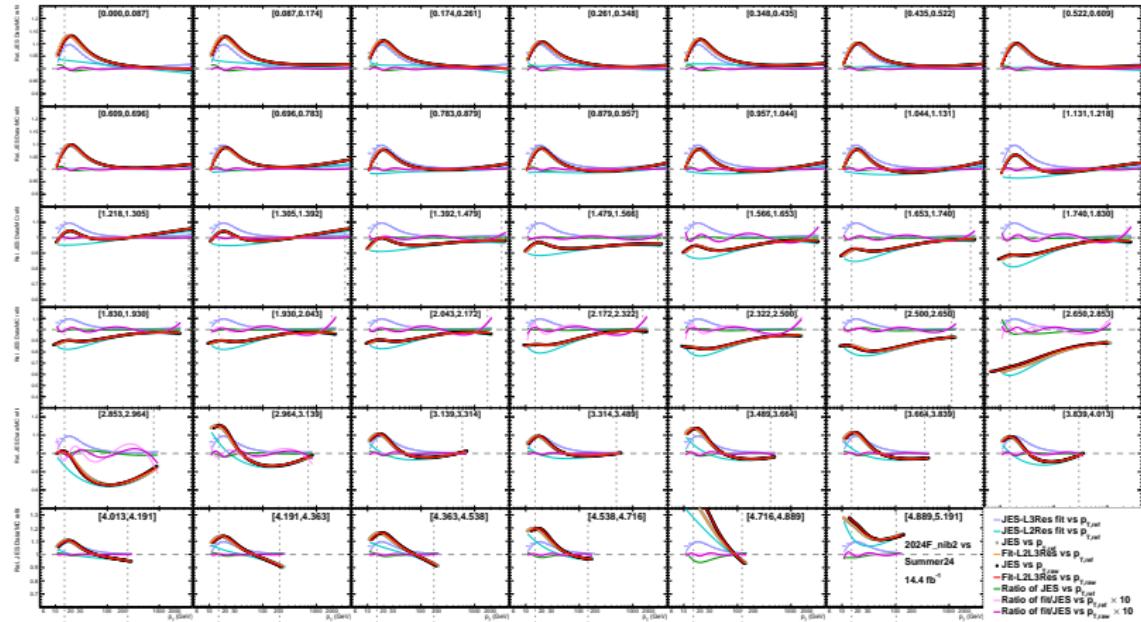
JES L2L3Res re-fits (V9M): 2024F\_nib1



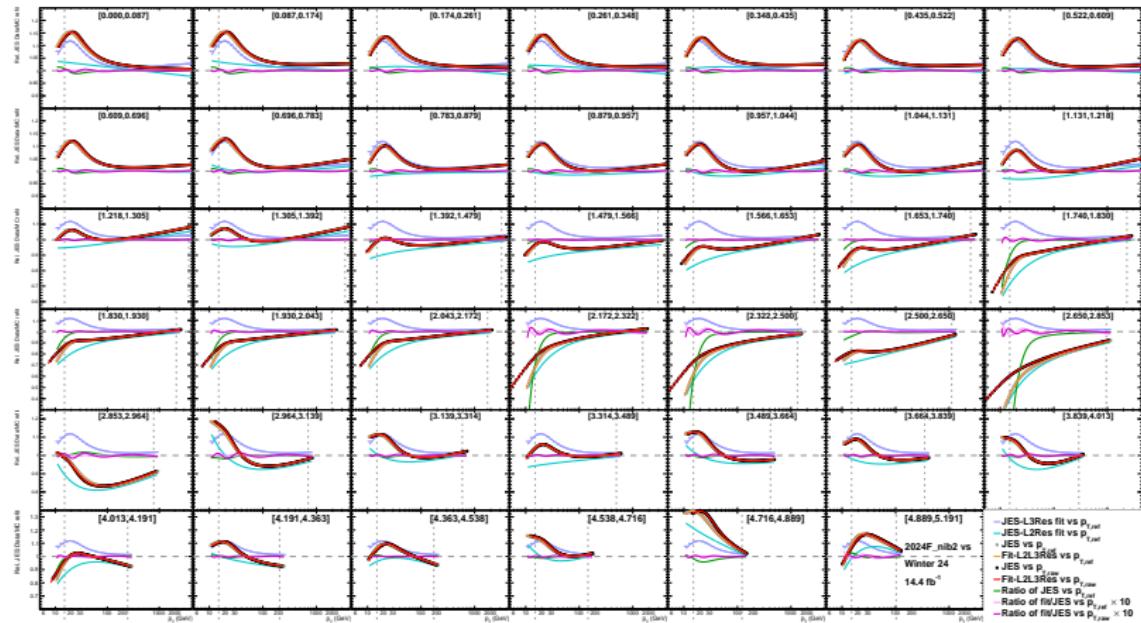
JES L2L3Res re-fits (ref: V8M): 2024F\_nib1



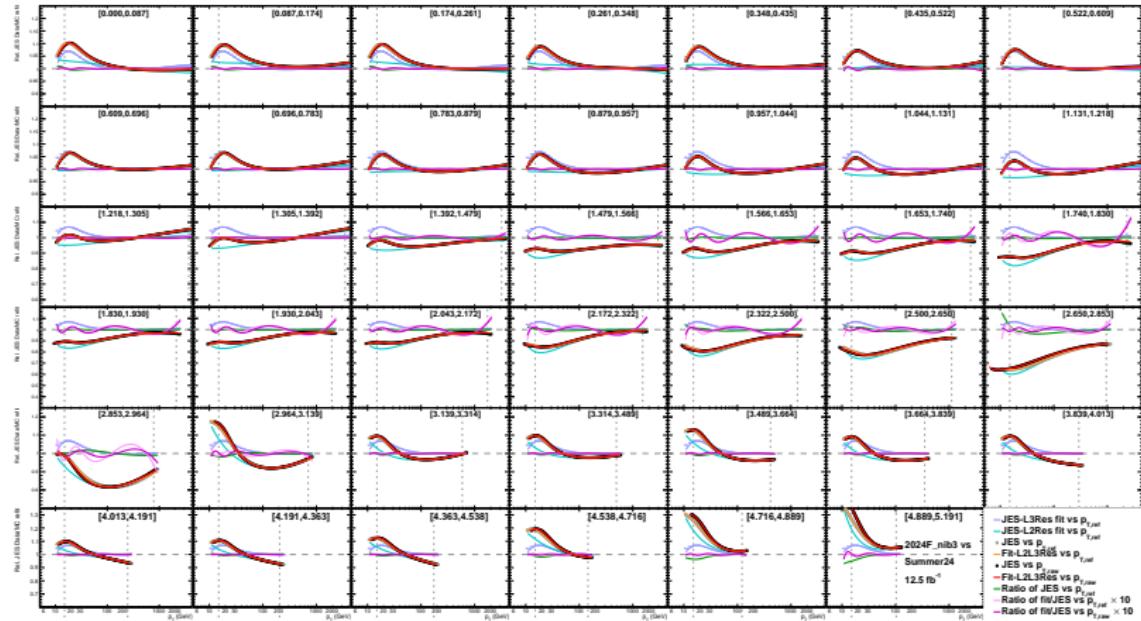
# JES L2L3Res re-fits (V9M): 2024F\_nib2



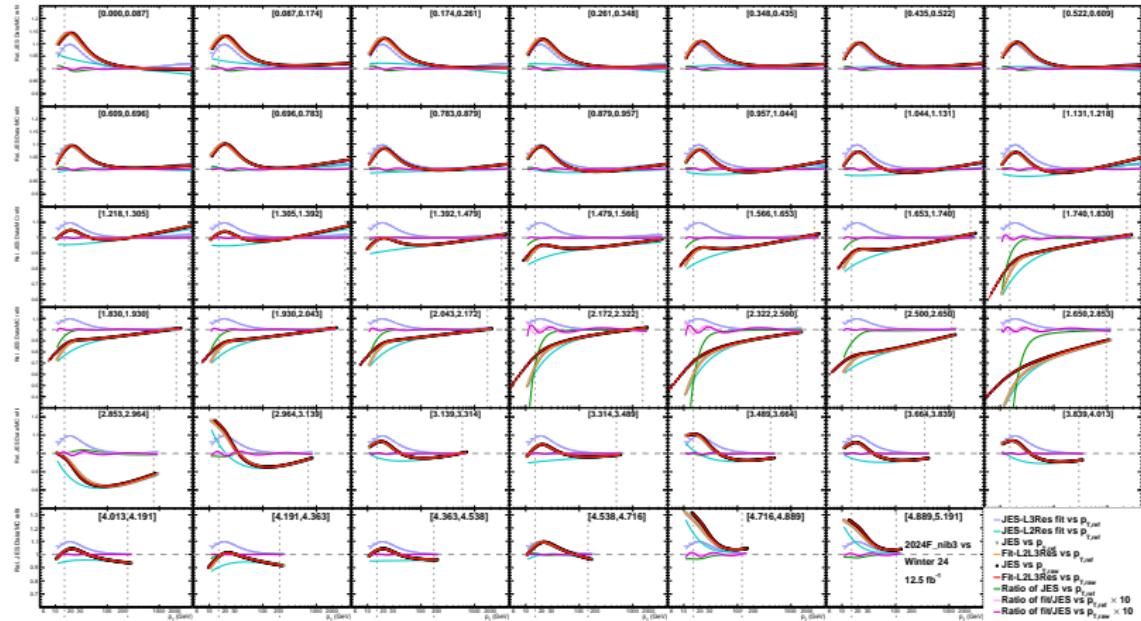
JES L2L3Res re-fits (ref: V8M): 2024F\_nib2



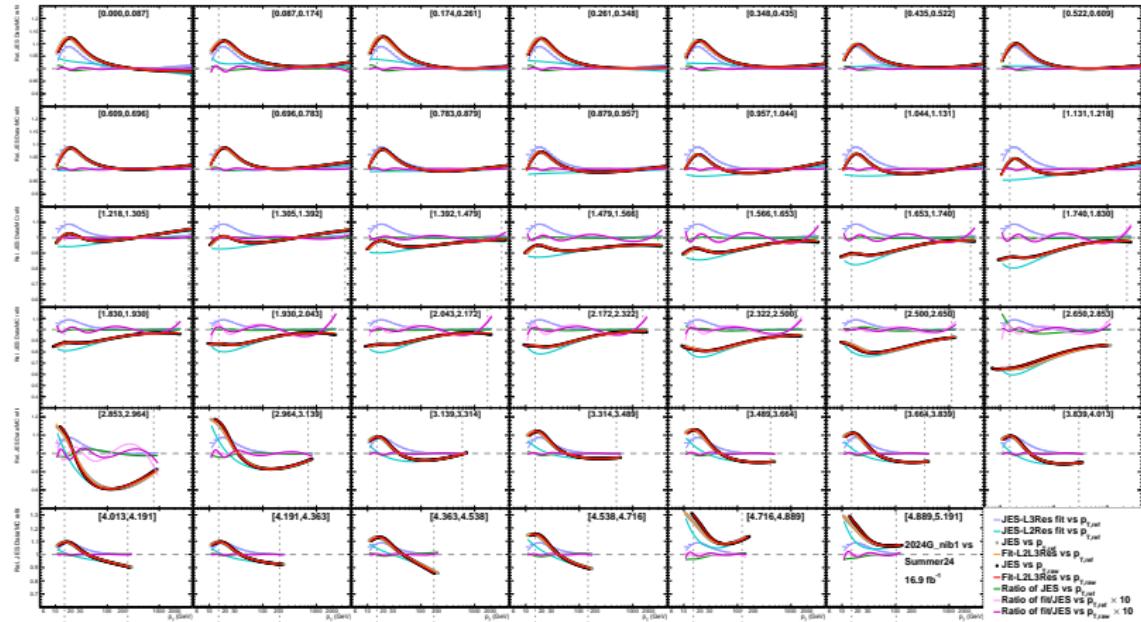
# JES L2L3Res re-fits (V9M): 2024F\_nib3



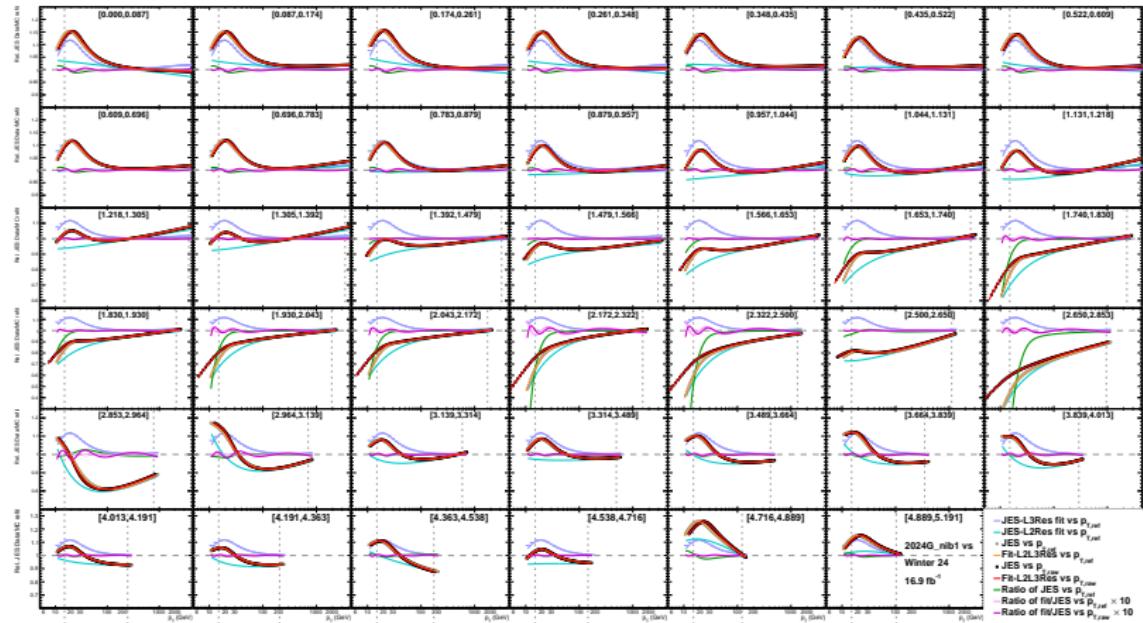
# JES L2L3Res re-fits (ref: V8M): 2024F\_nib3



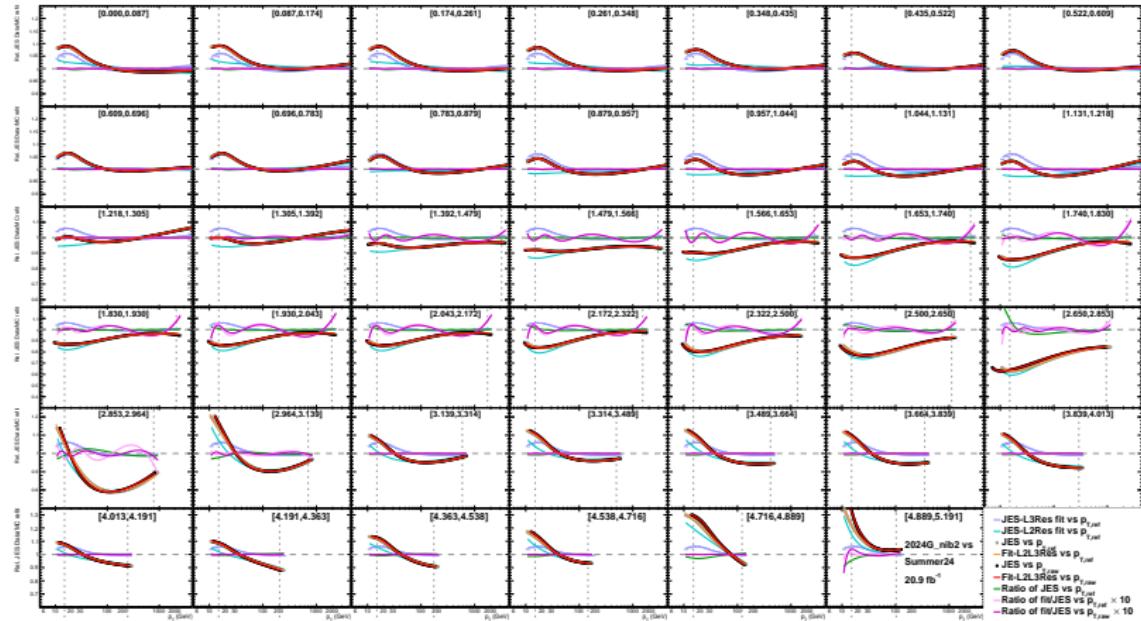
JES L2L3Res re-fits (V9M): 2024G\_nib1



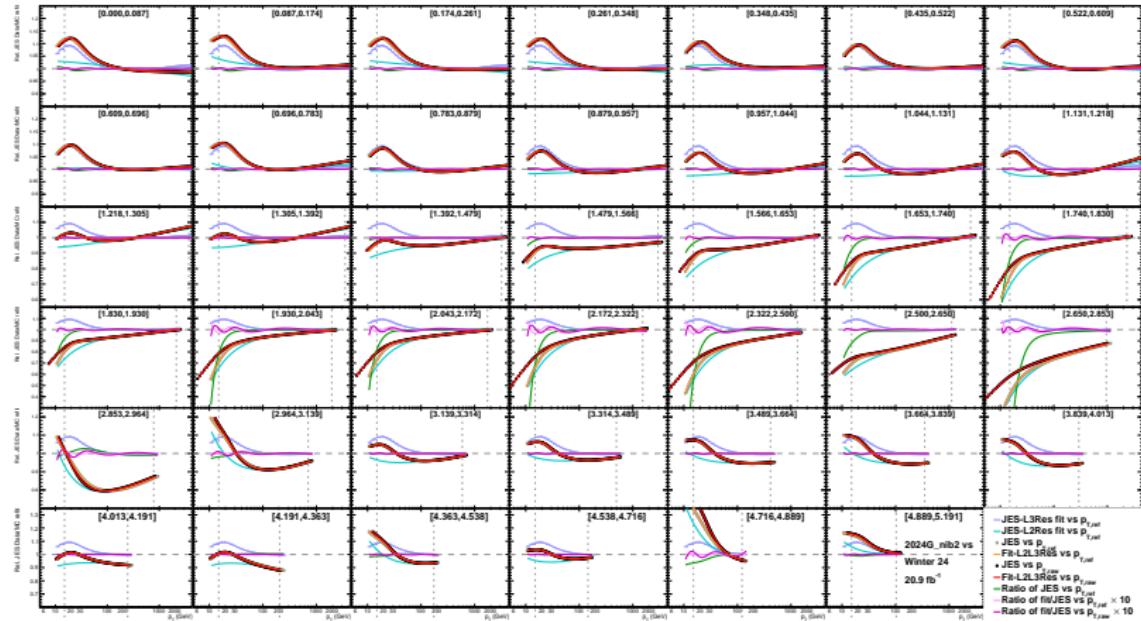
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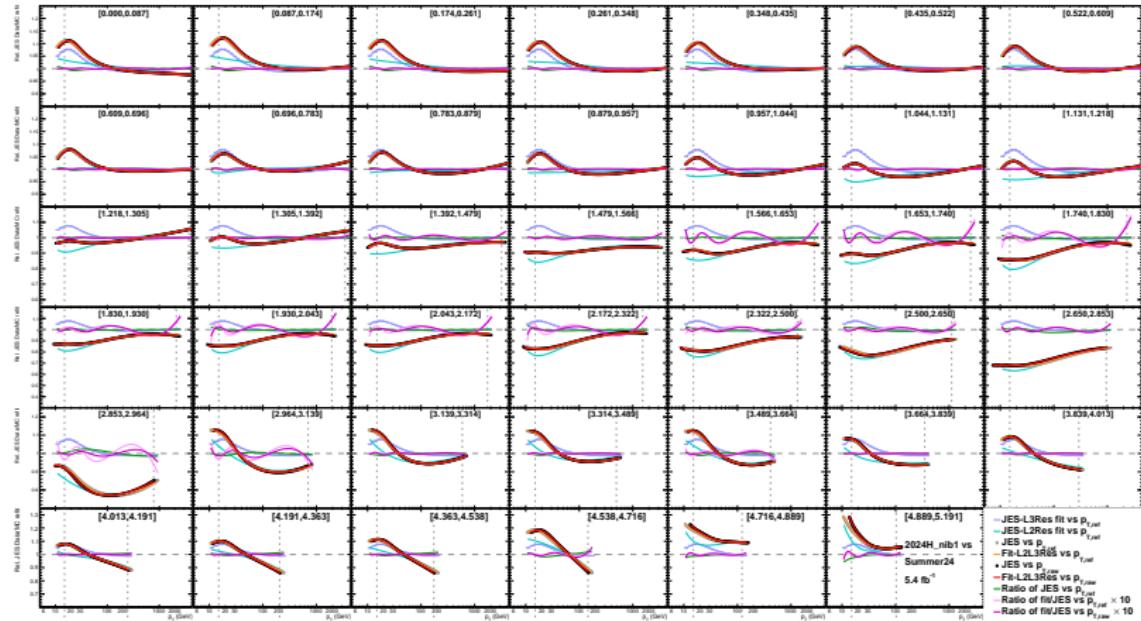
# JES L2L3Res re-fits (V9M): 2024G\_nib2



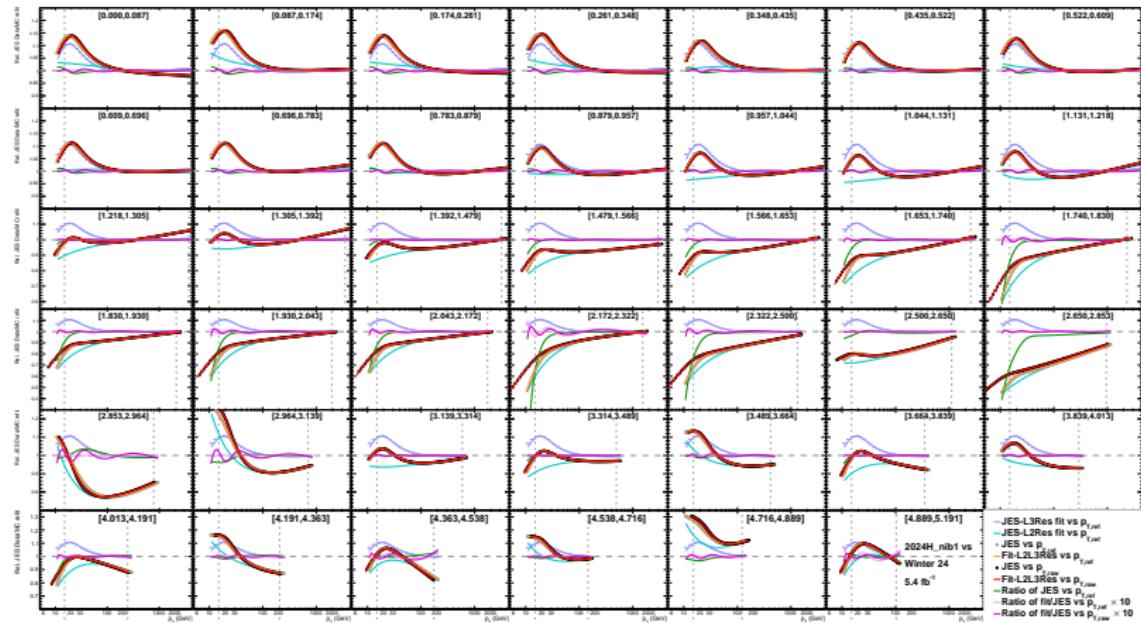
# JES L2L3Res re-fits (ref: V8M): 2024G\_nib2



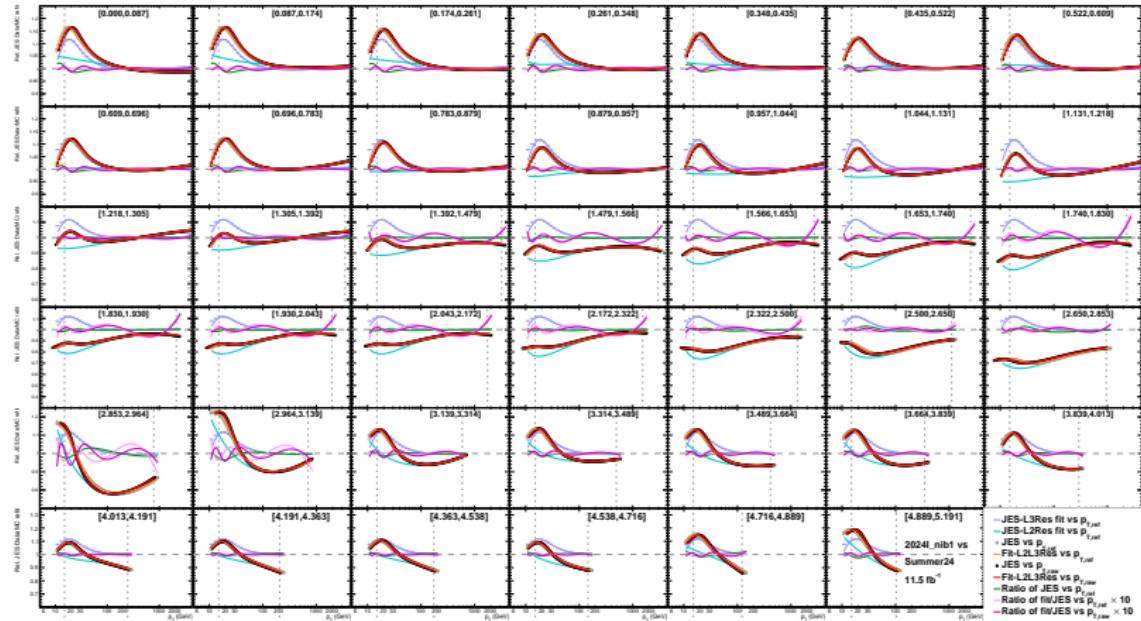
# JES L2L3Res re-fits (V9M): 2024H\_nib1



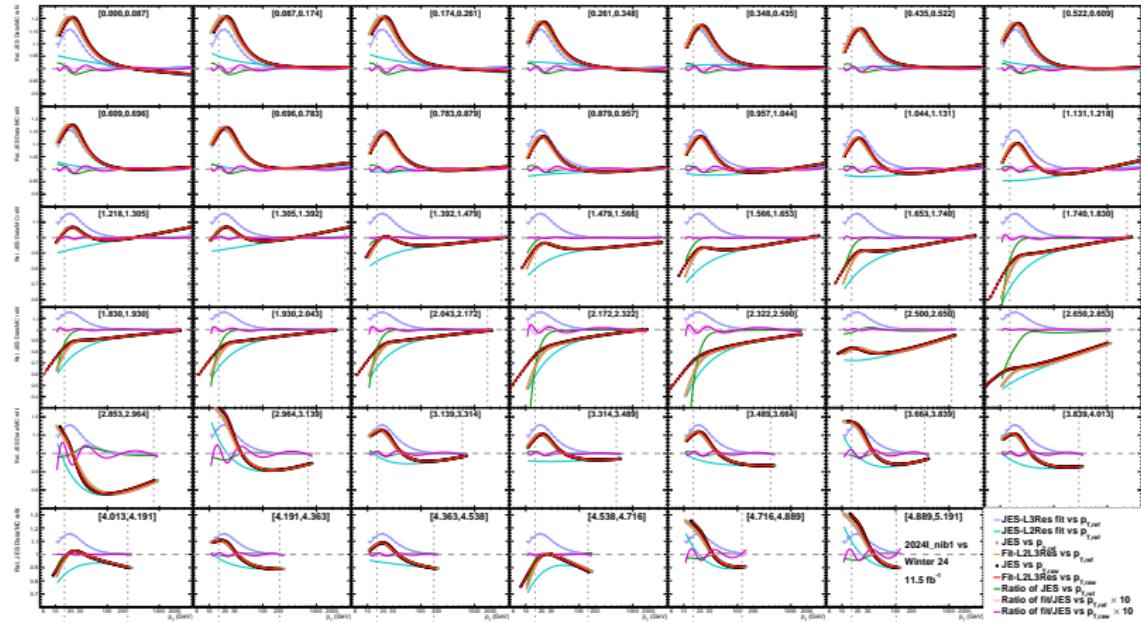
# JES L2L3Res re-fits (ref: V8M): 2024H\_nib1



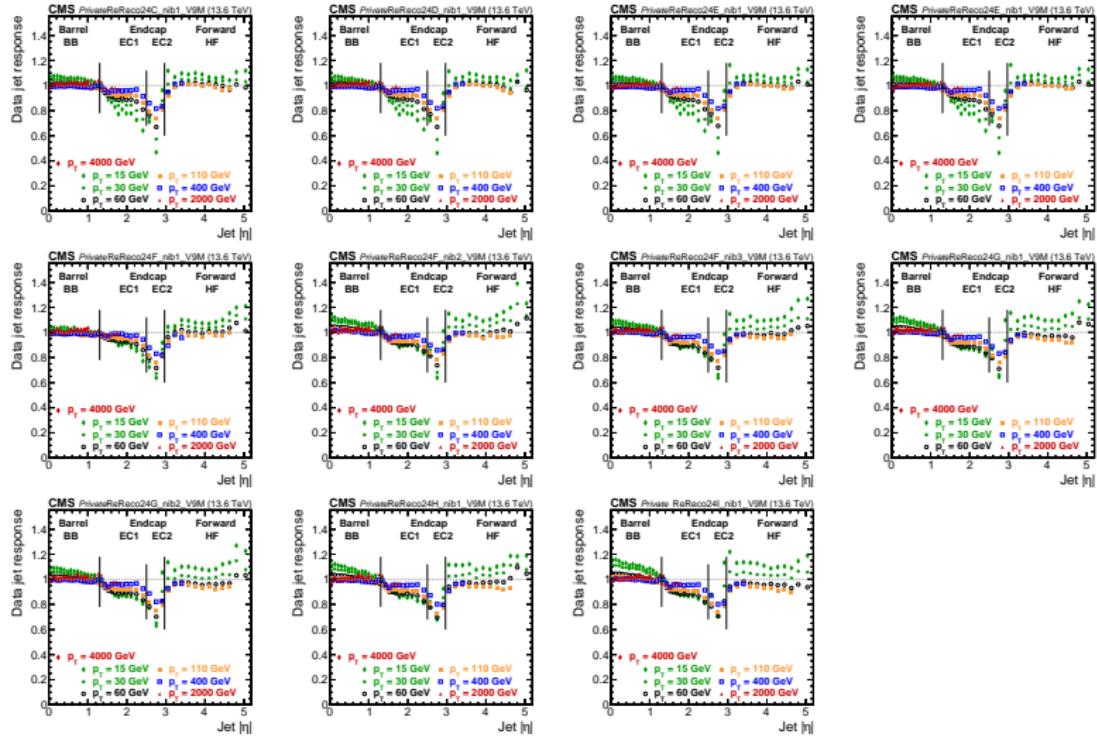
# JES L2L3Res re-fits (V9M): 2024I\_nib1



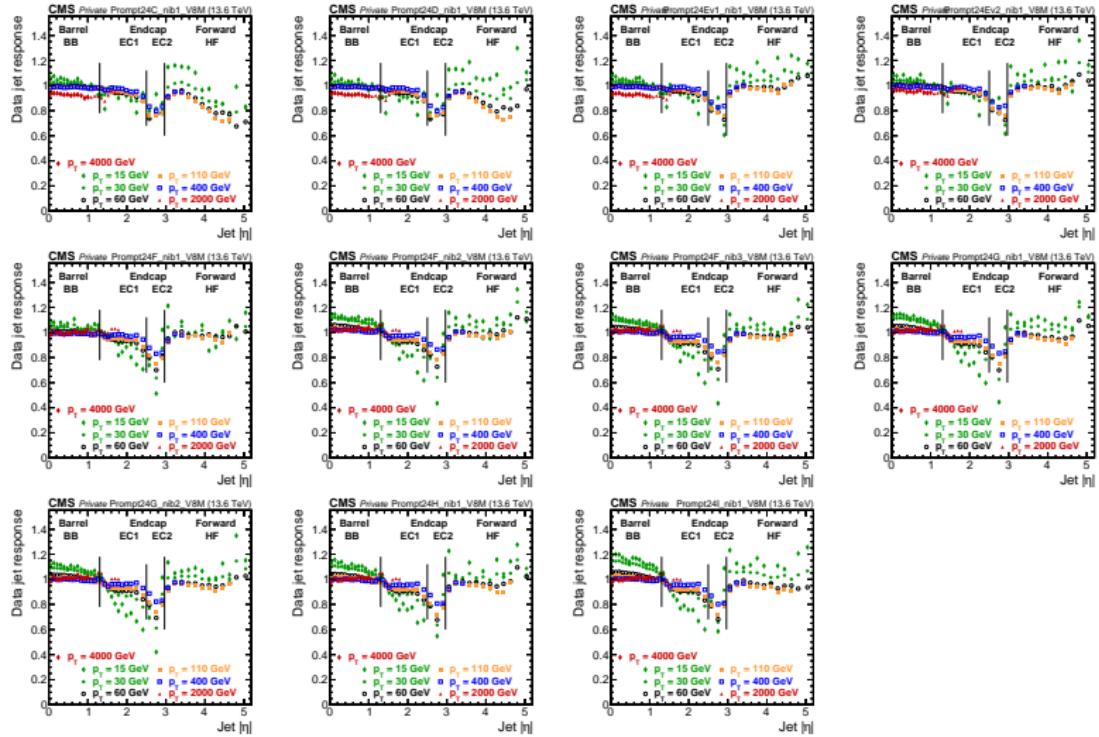
JES L2L3Res re-fits (ref: V8M): 2024I\_nib1



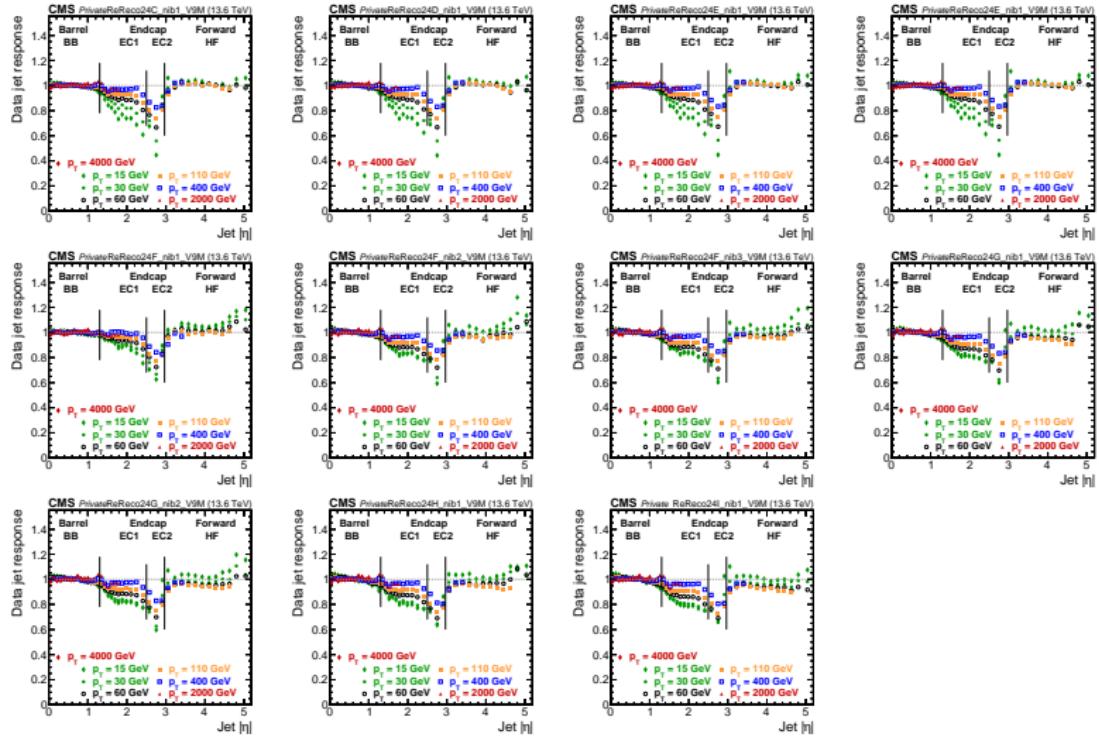
JES L2L3Res (V9M)



JES L2L3Res (ref: V8M)



JES L2Res only (V9M)



## JES L2Res only (ref: V8M)

