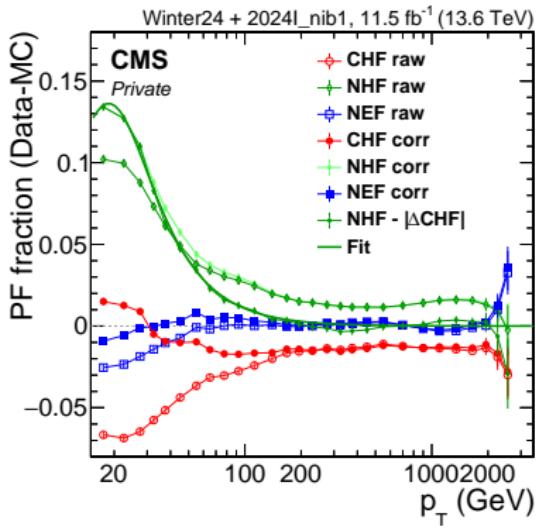
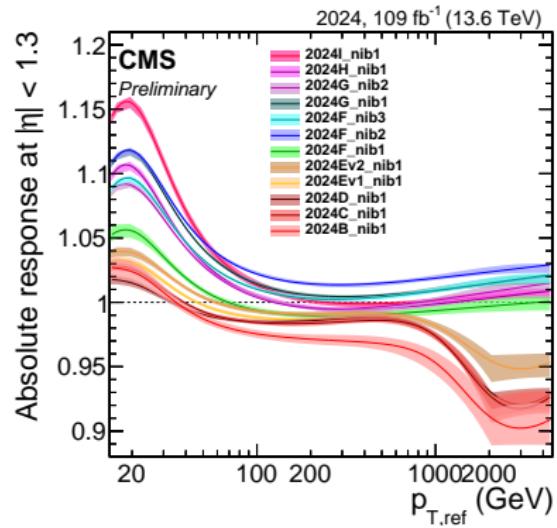


L3Res fits + L2L3Res on Prompt24 (new: V8M, test: V7M)

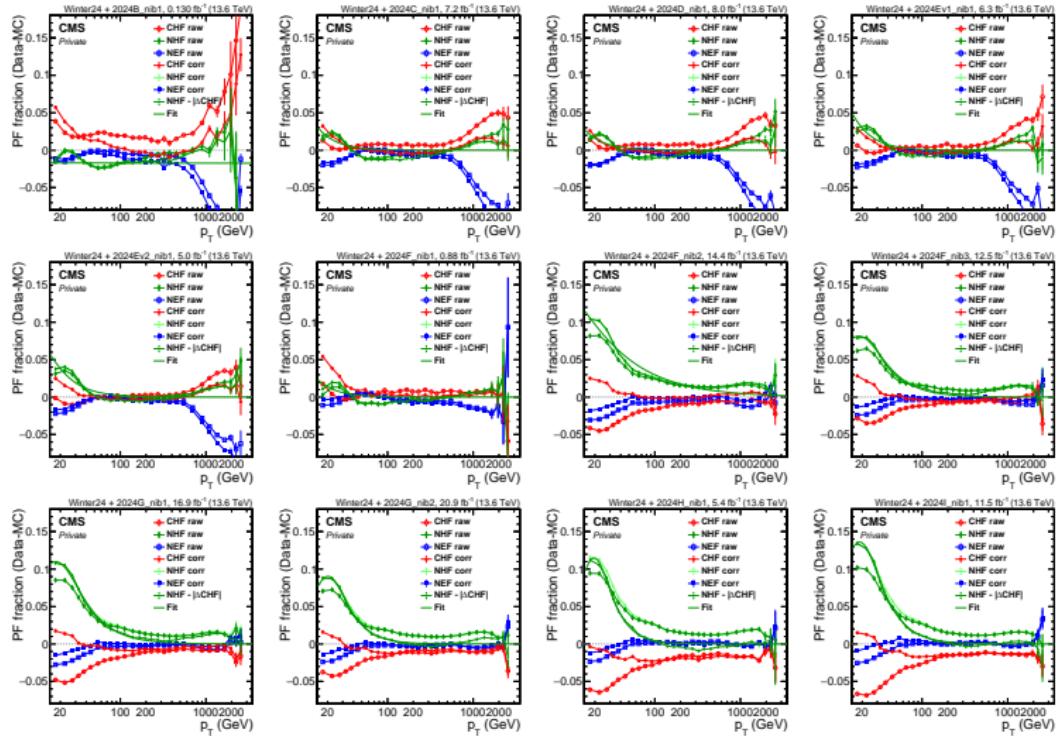
Date: February 12, 2025

- ▶ First nib-based JEC, with explicit re-fit vs $p_{T,\text{raw}}$
- ▶ New “off_nhf” shape derived from PF energy fraction data
- ▶ 2024B was commissioning era (V7M non-closure, 0.13 fb^{-1})
- ▶ 2024F_nib1 missed HCAL_DI (V7M non-closure, 0.88 fb^{-1})
- ▶ 2024FG have some bins with $\pm 1\%$ JES shifts in L3Res, but within uncertainty band (mid-era HCAL+ECAL updates)
- ▶ $2 < |\eta| < 3$ region consistency significantly improved at low p_T by remapping $p_{T,\text{ref}}$ to $p_{T,\text{raw}}$ in V8M
- ▶ 2024B and 2024F_nib1 have large error bars in L2Res due to low statistics ($\leq 1 \text{ fb}^{-1}$)
- ▶ To-do: (i) account for photon scale drifts, (ii) add inclusive jet vs full 2024

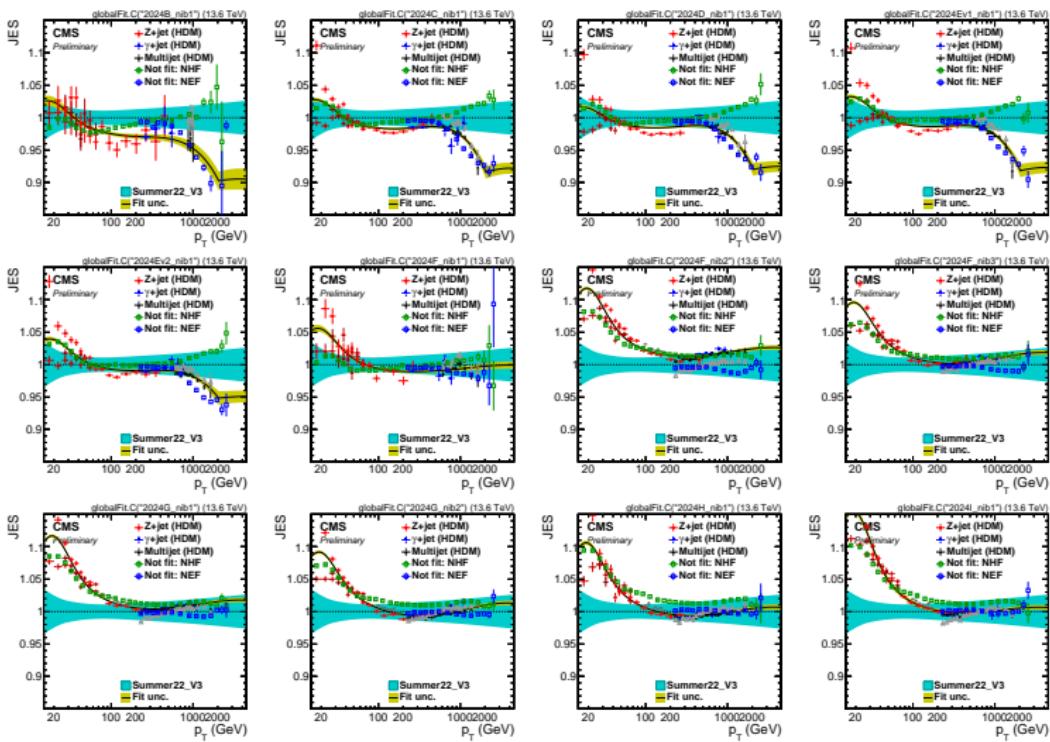
JES L3Res fits summary (V8M)



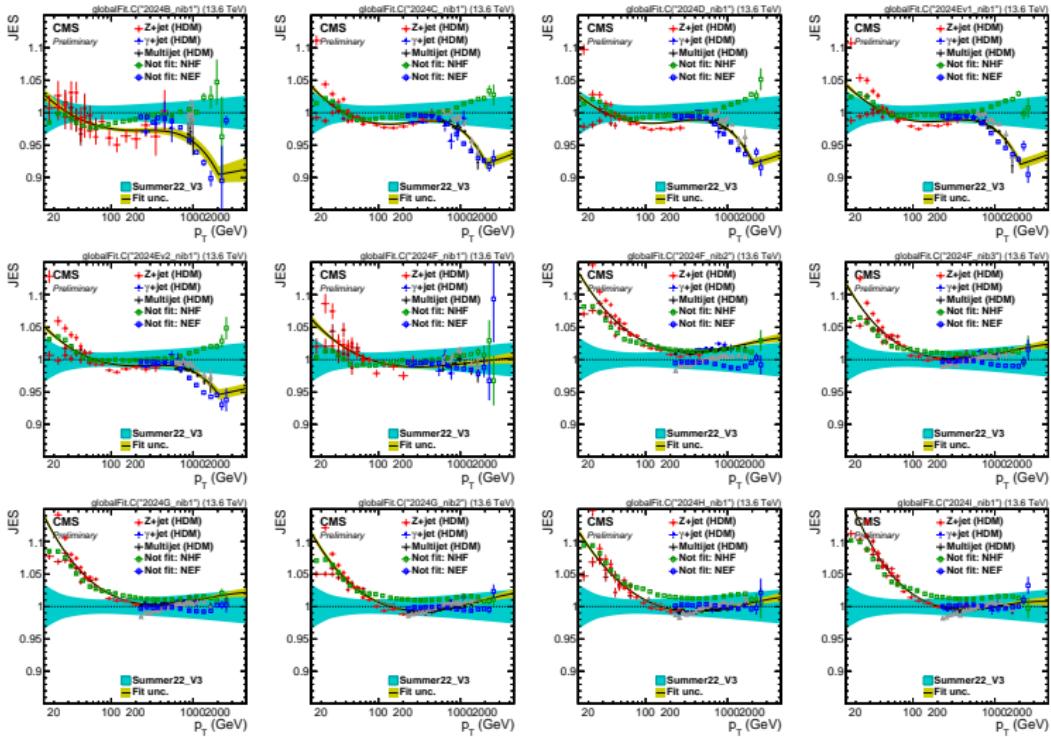
PF energy composition (V8M)



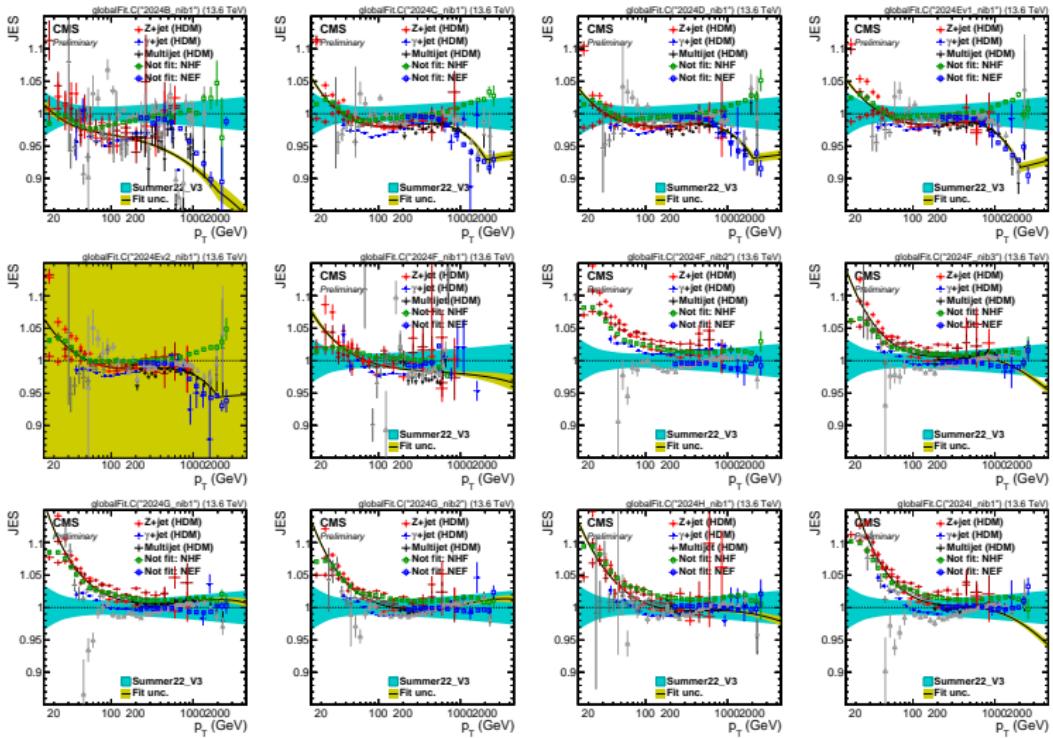
JES L3Res fits (V8M)



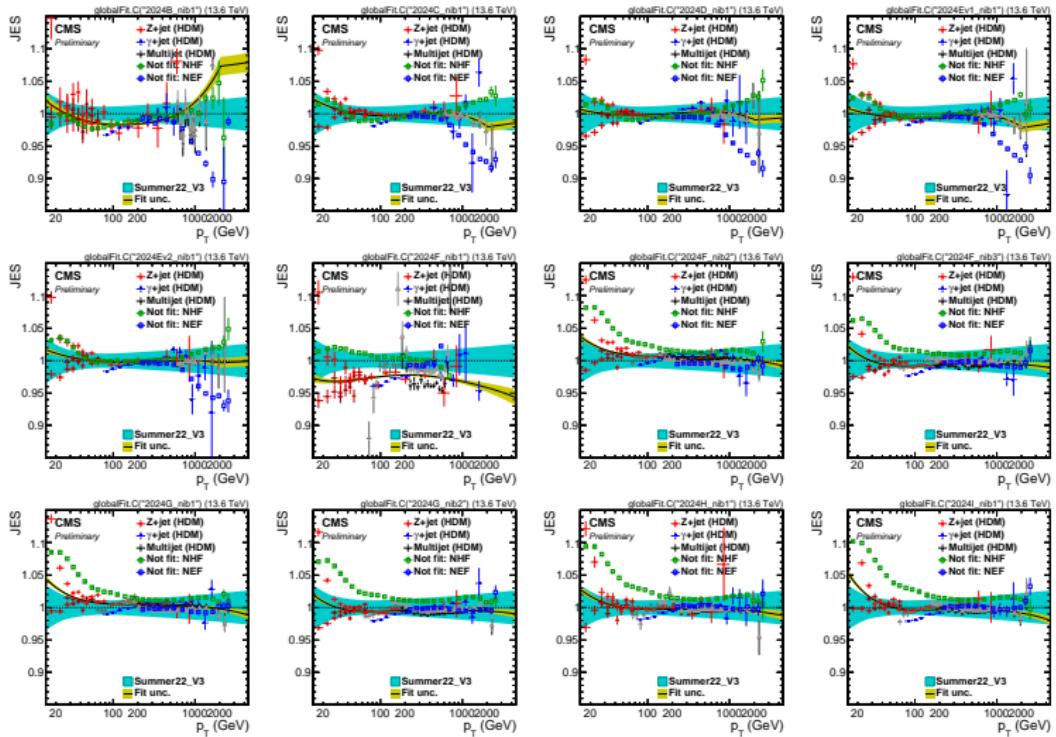
JES L3Res fits: old shapes (V8M)



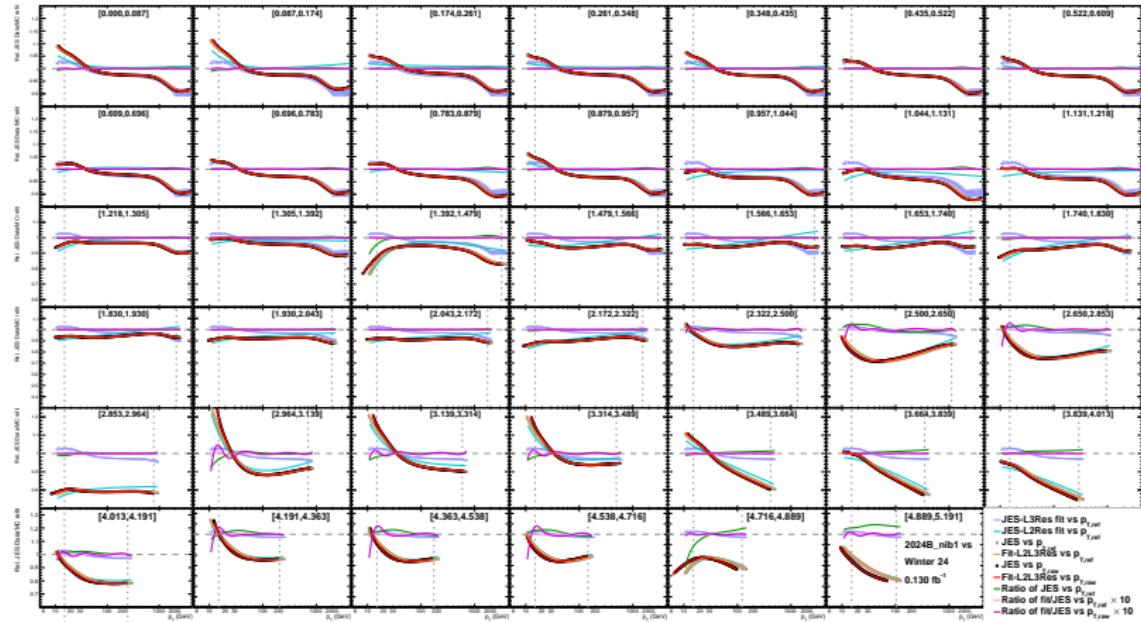
JES L3Res fits: all data (V8M)



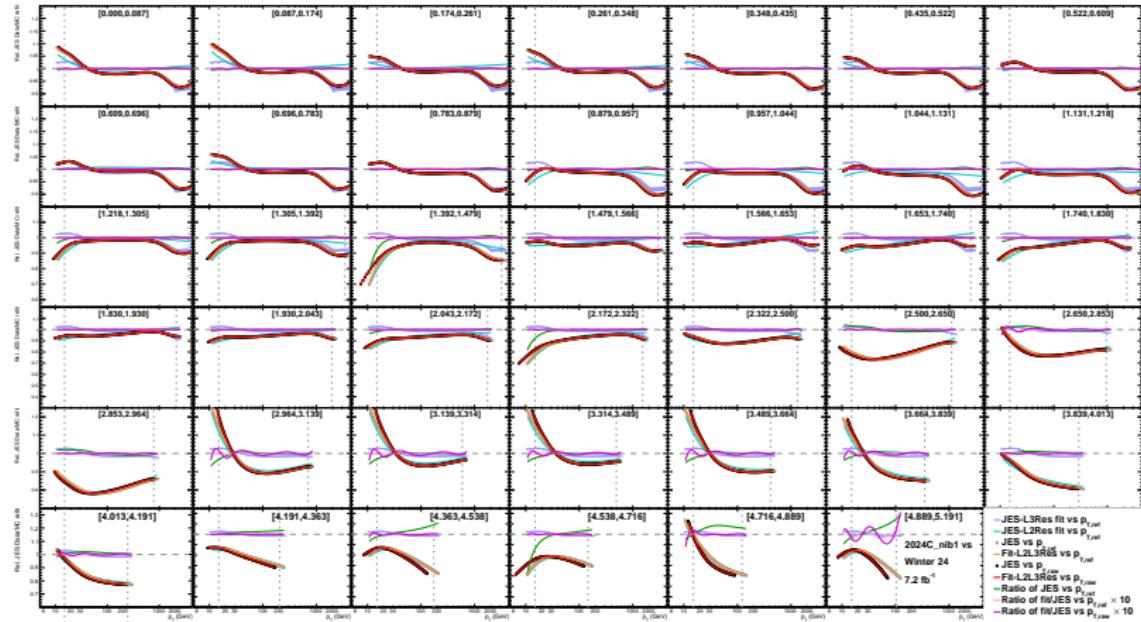
JES L3Res closure (with V7M)



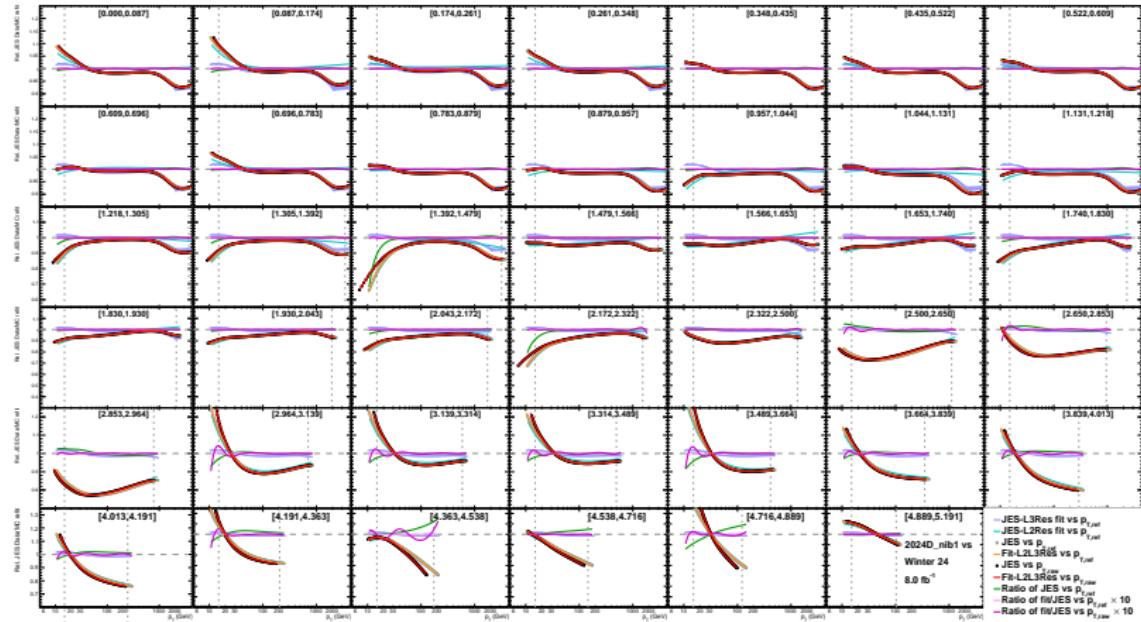
JES L2L3Res re-fits (V8M): 2024B_nib1



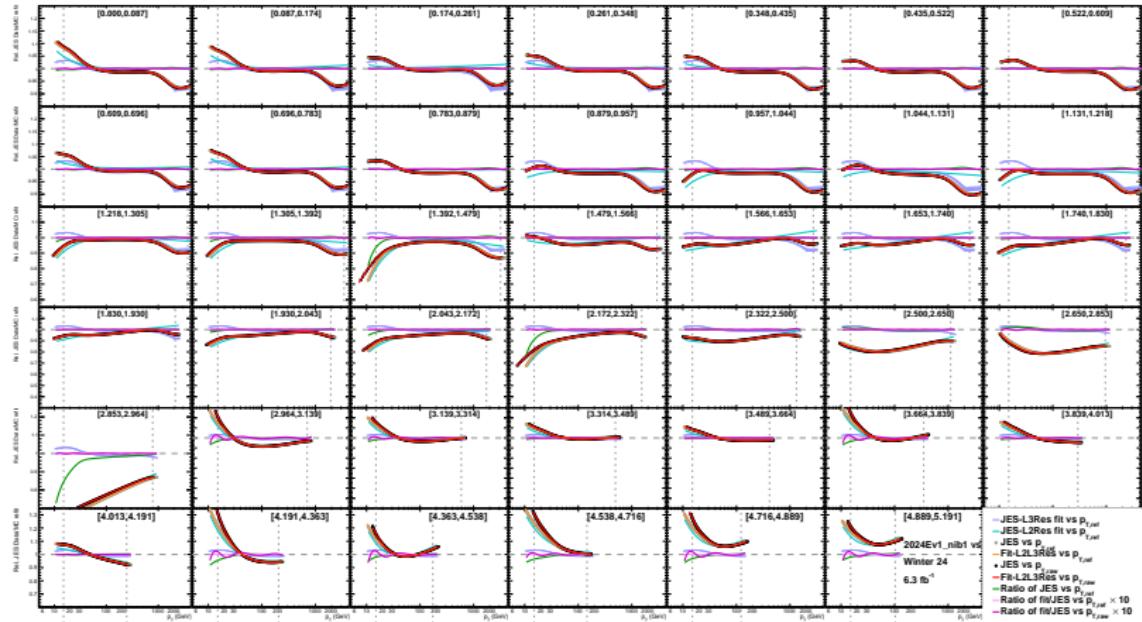
JES L2L3Res re-fits (V8M): 2024C_nib1



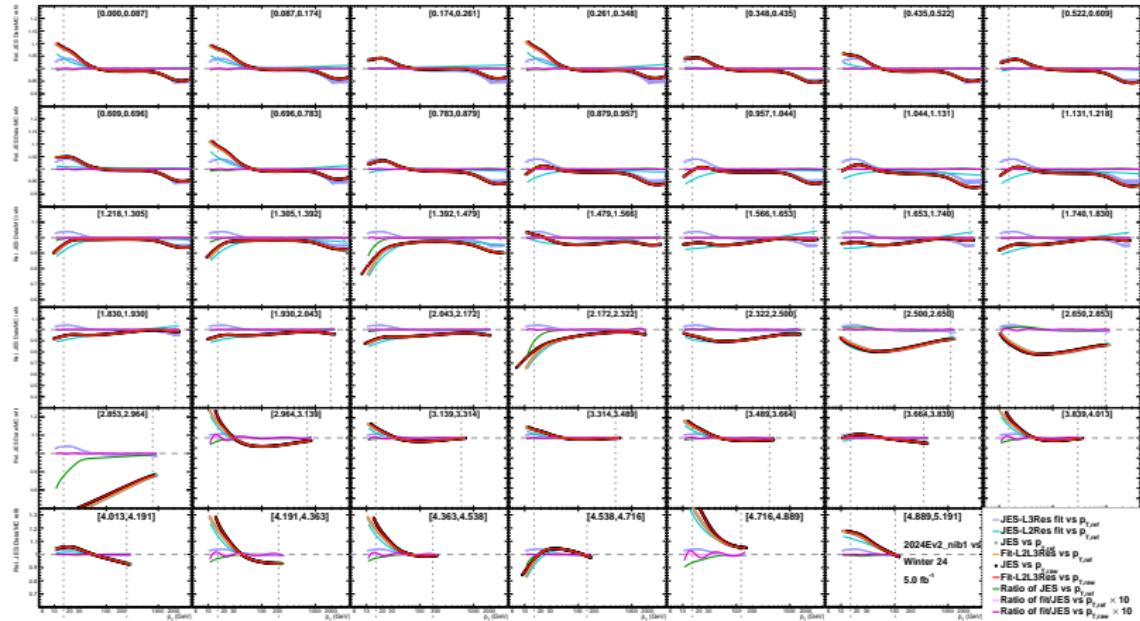
JES L2L3Res re-fits (V8M): 2024D_nib1



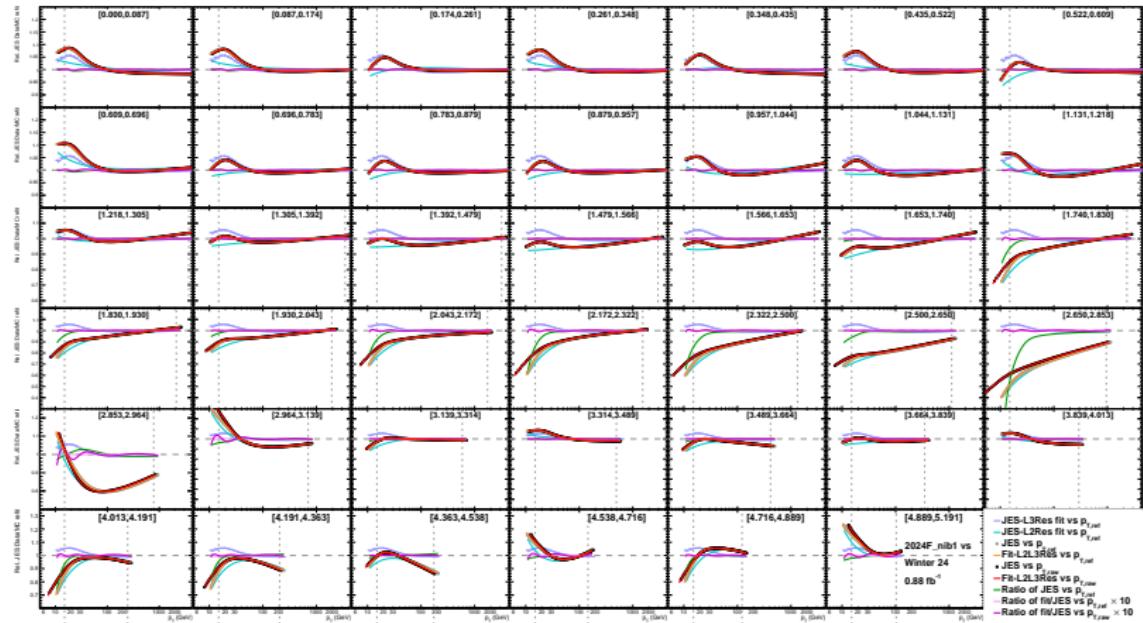
JES L2L3Res re-fits (V8M): 2024Ev1_nib1



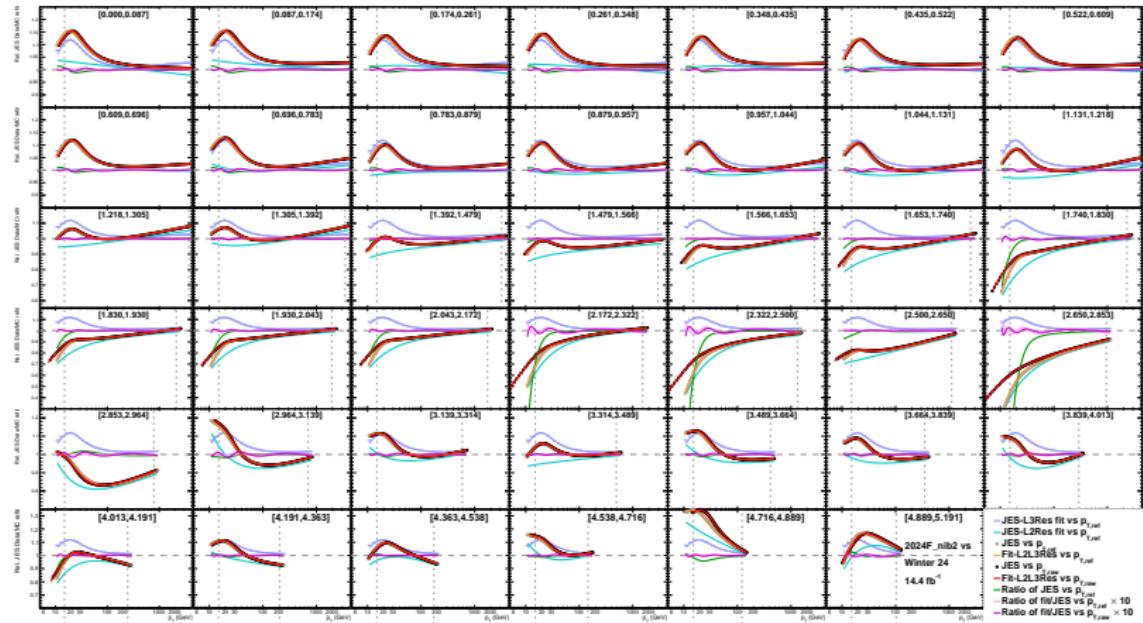
JES L2L3Res re-fits (V8M): 2024Ev2_nib1



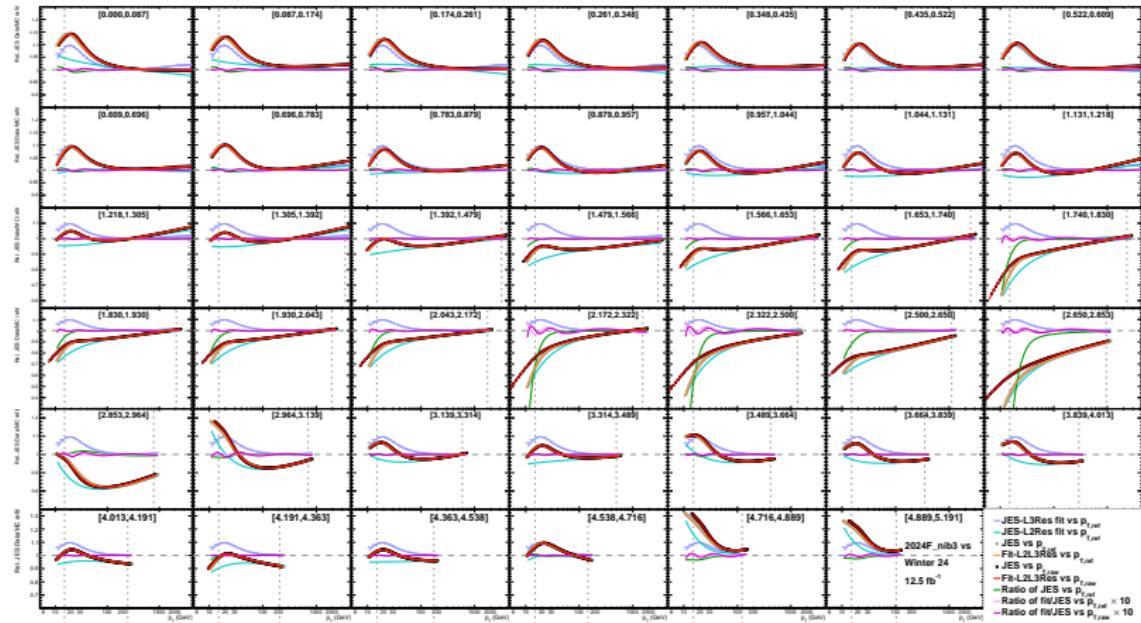
JES L2L3Res re-fits (V8M): 2024F_nib1



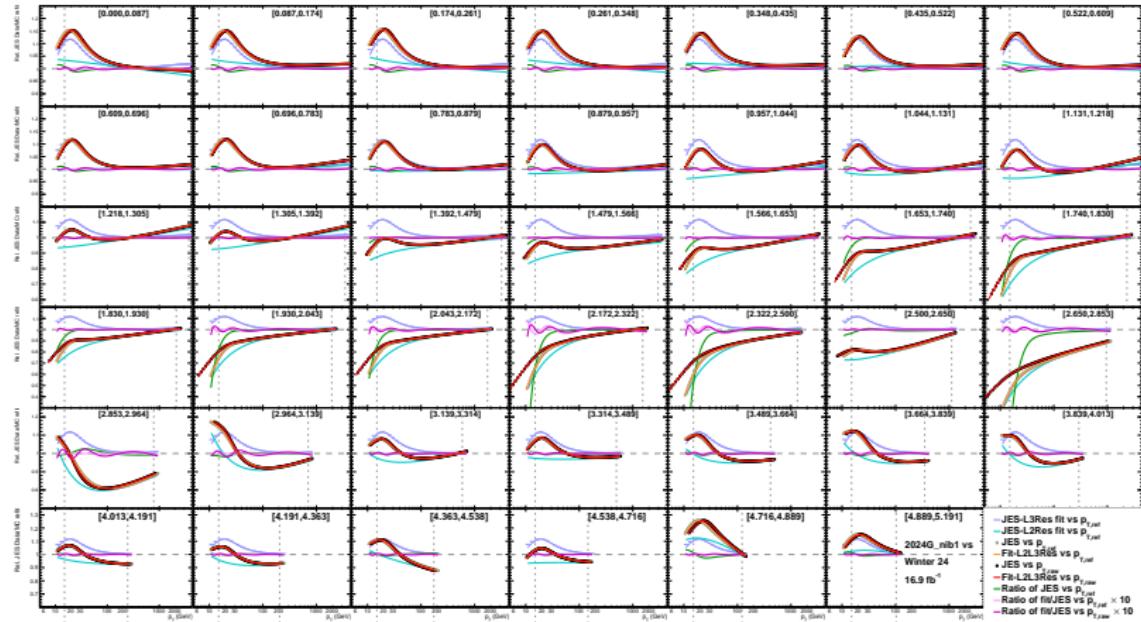
JES L2L3Res re-fits (V8M): 2024F_nib2



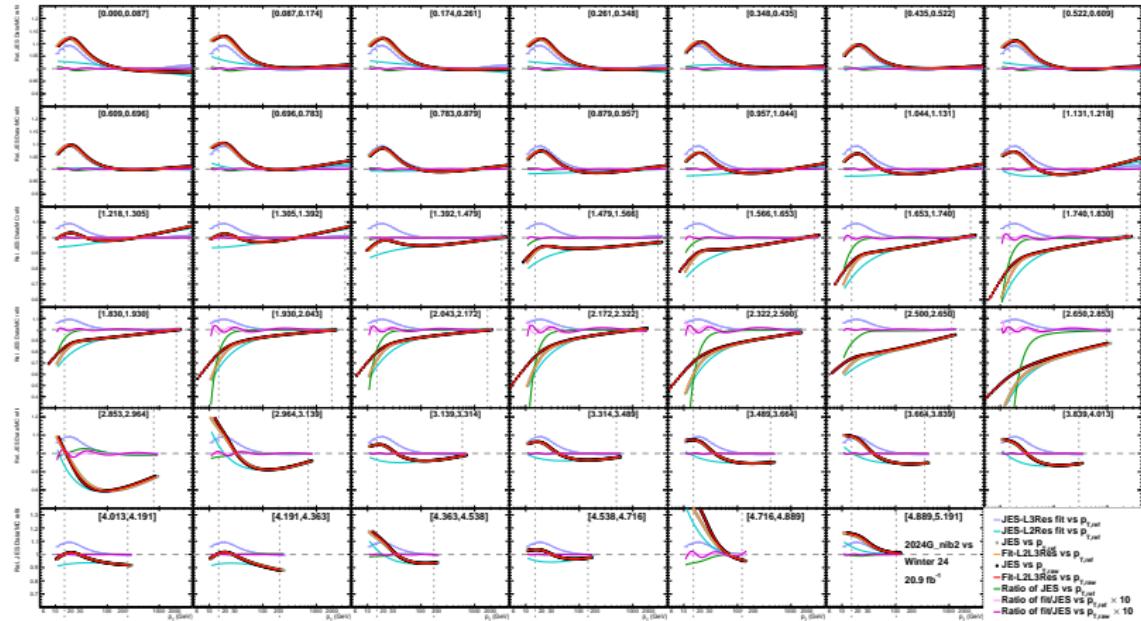
JES L2L3Res re-fits (V8M): 2024F_nib3



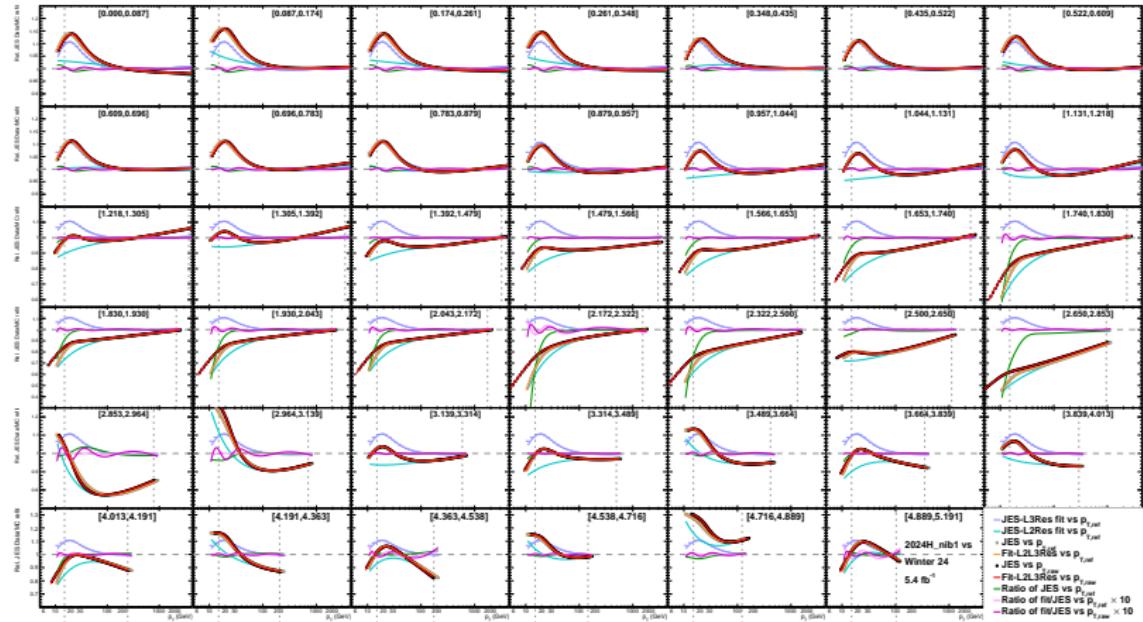
JES L2L3Res re-fits (V8M): 2024G_nib1



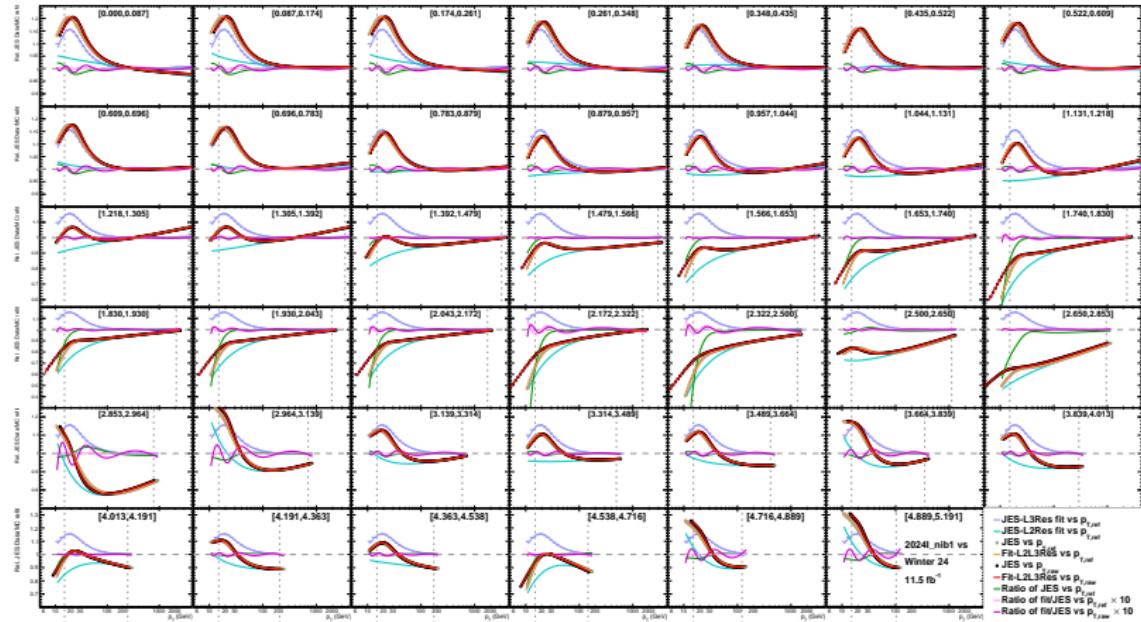
JES L2L3Res re-fits (V8M): 2024G_nib2



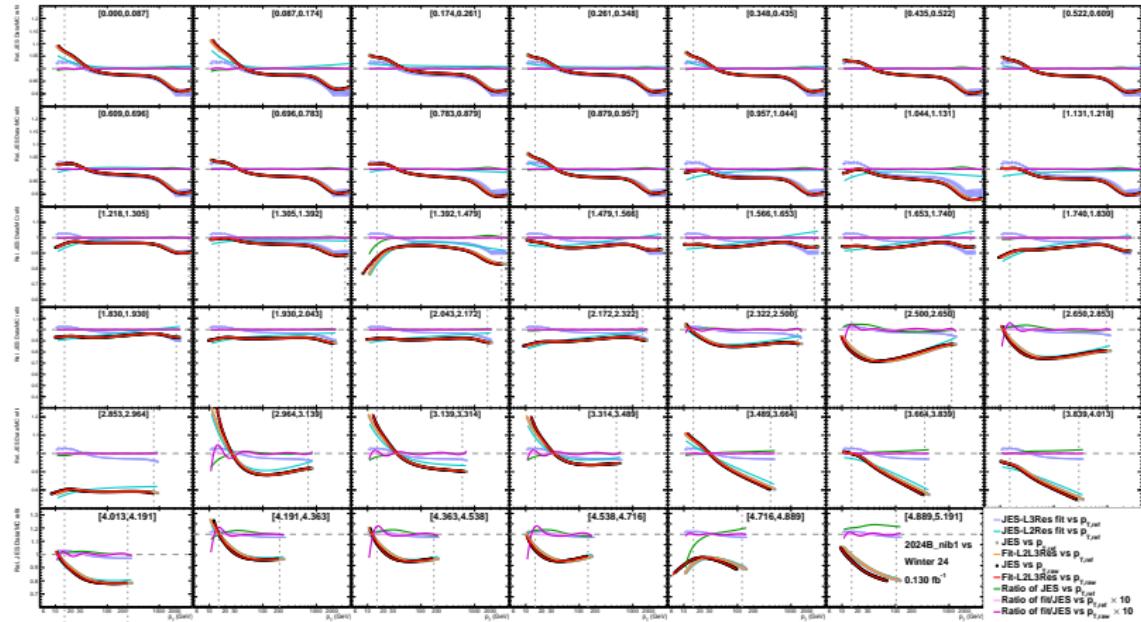
JES L2L3Res re-fits (V8M): 2024H_nib1



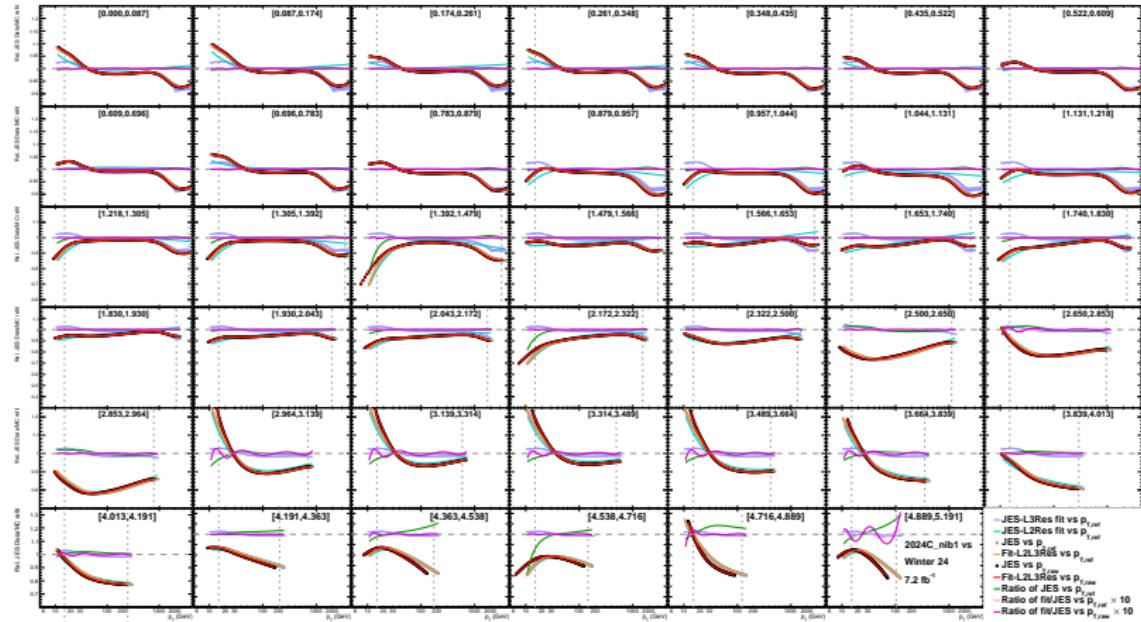
JES L2L3Res re-fits (V8M): 2024I_nib1



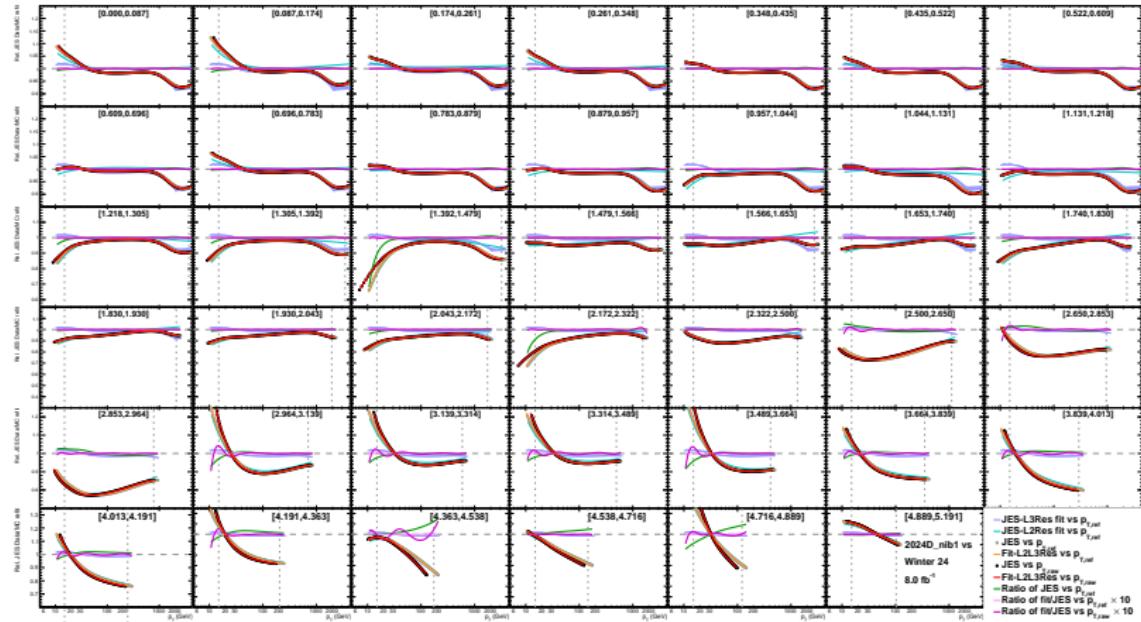
JES L2L3Res re-fits (V8M): 2024B_nib1



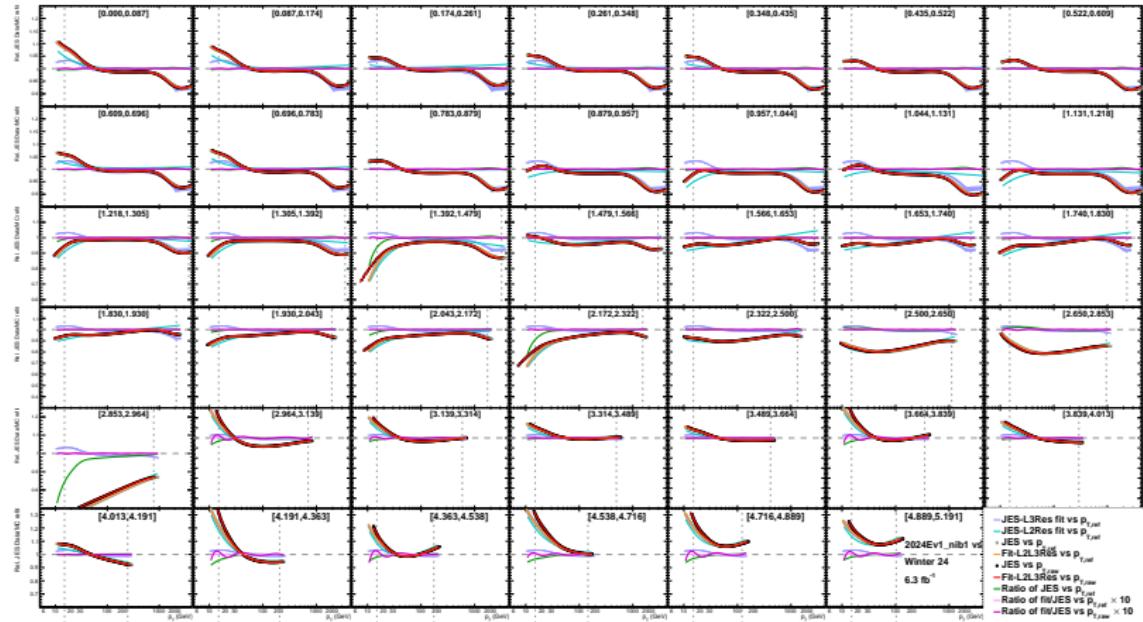
JES L2L3Res re-fits (V8M): 2024C_nib1



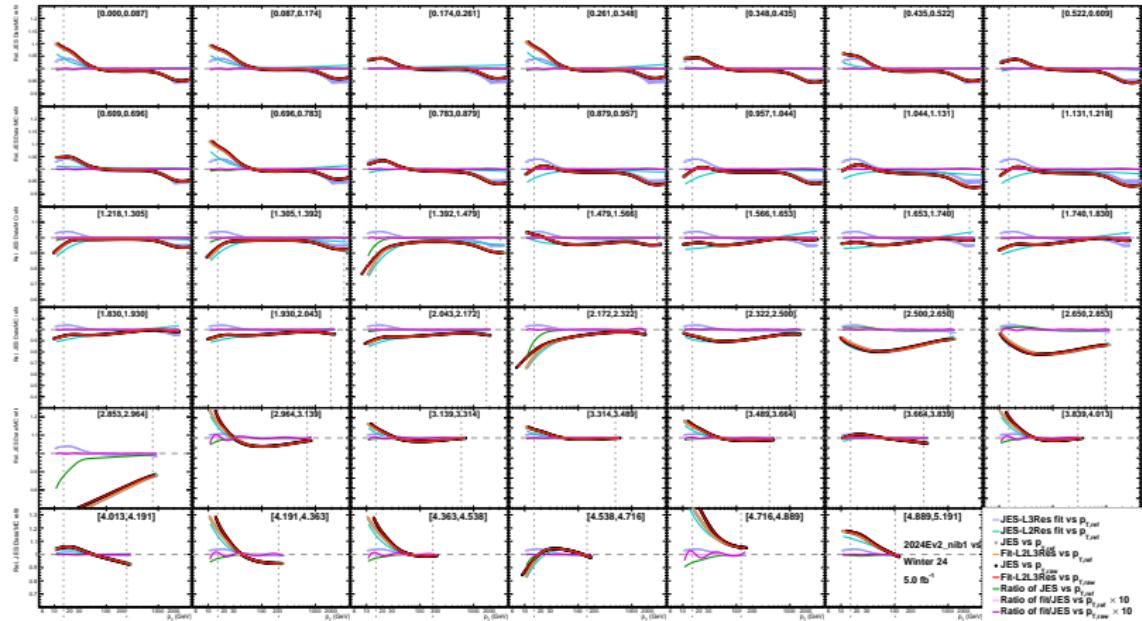
JES L2L3Res re-fits (V8M): 2024D_nib1



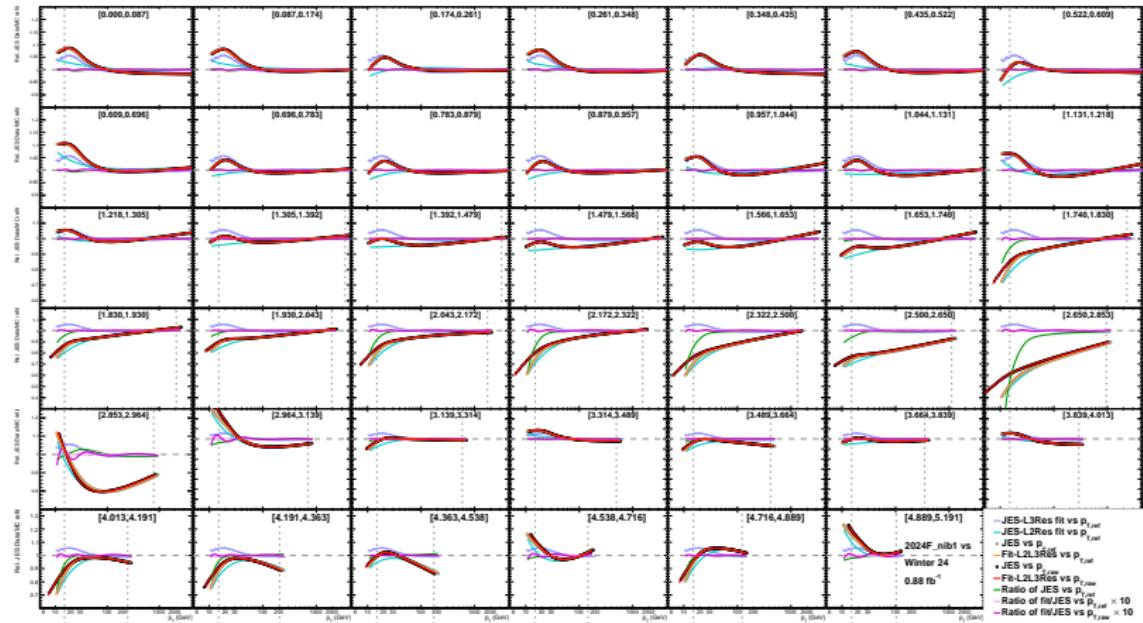
JES L2L3Res re-fits (V8M): 2024Ev1_nib1



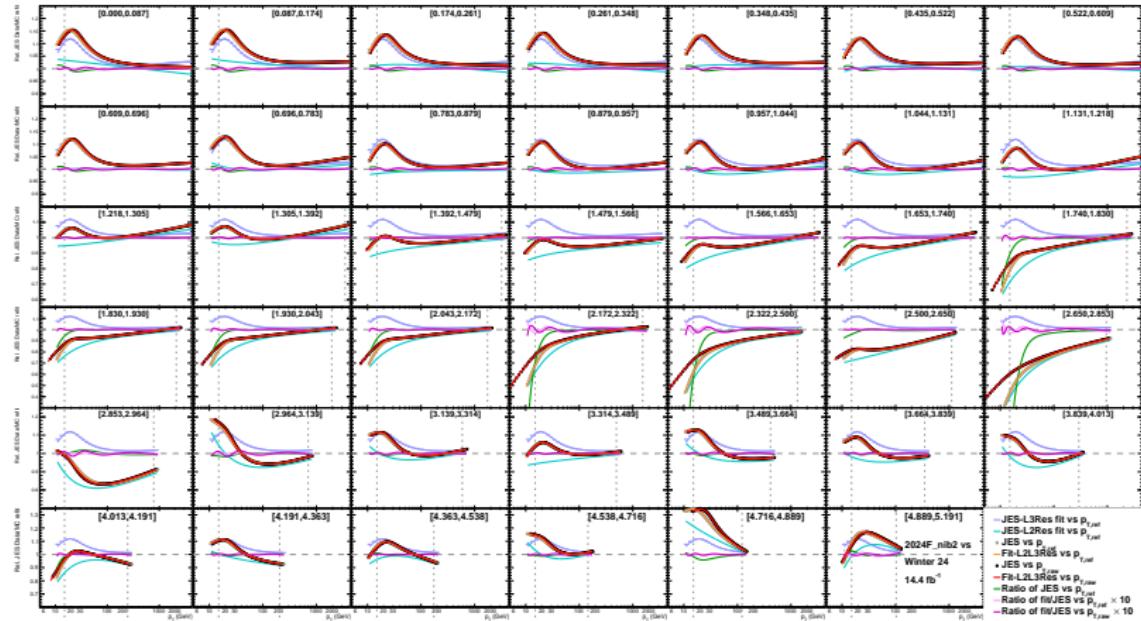
JES L2L3Res re-fits (V8M): 2024Ev2_nib1



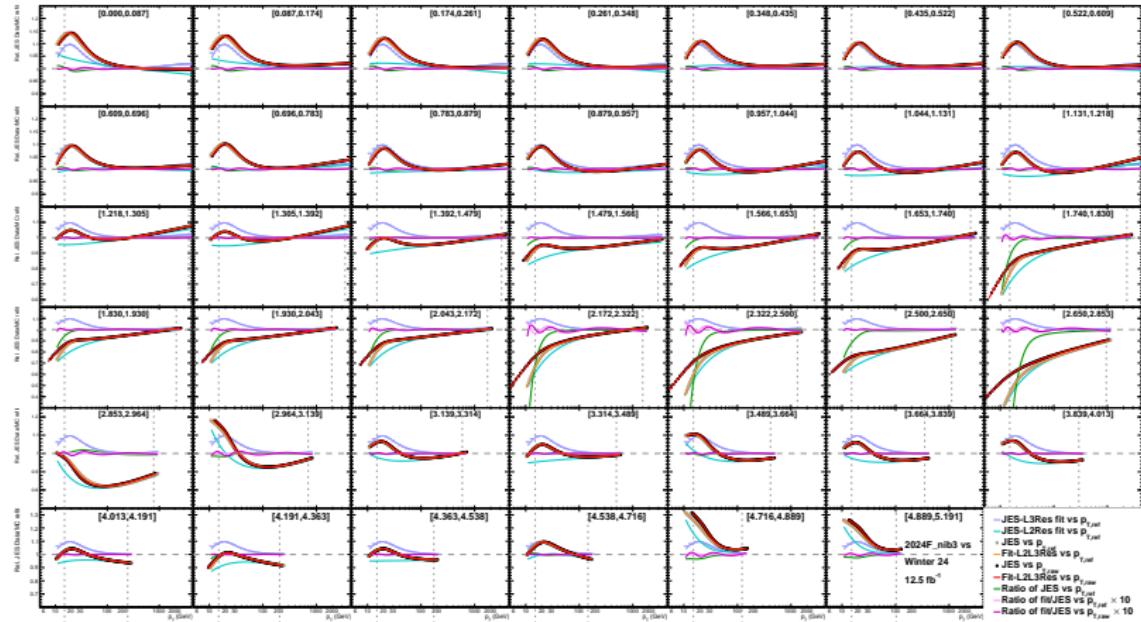
JES L2L3Res re-fits (V8M): 2024F_nib1



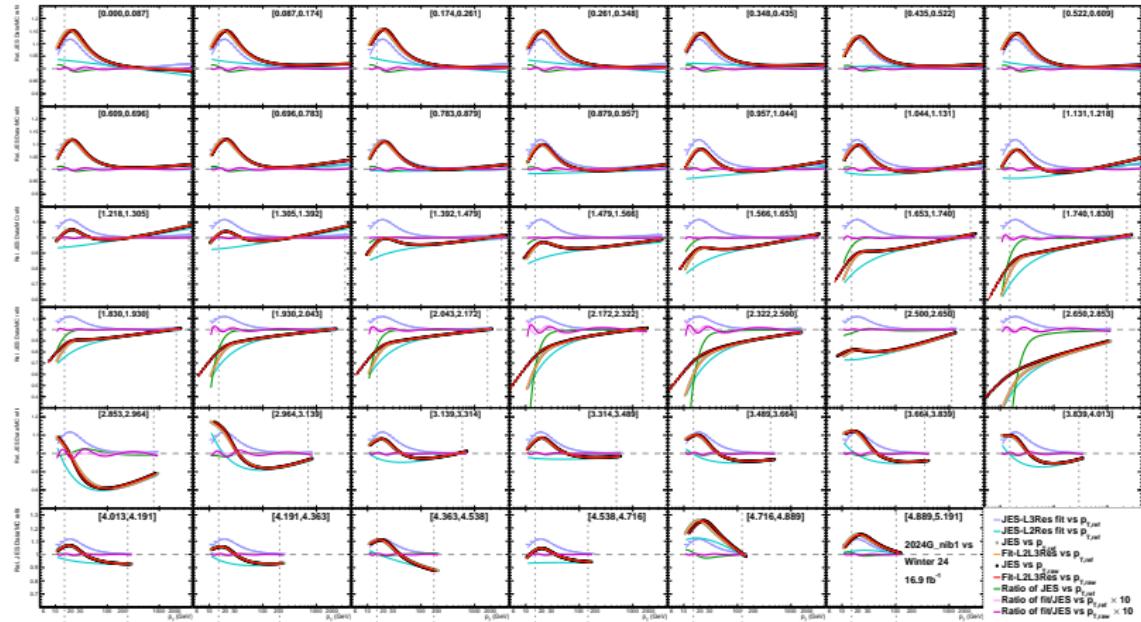
JES L2L3Res re-fits (V8M): 2024F_nib2



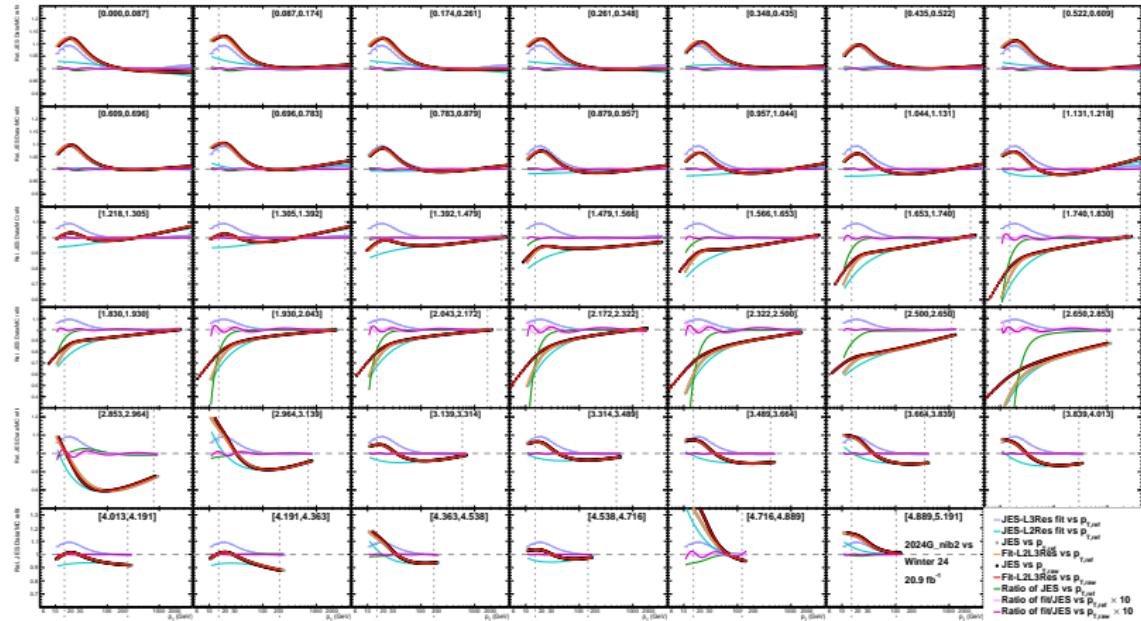
JES L2L3Res re-fits (V8M): 2024F_nib3



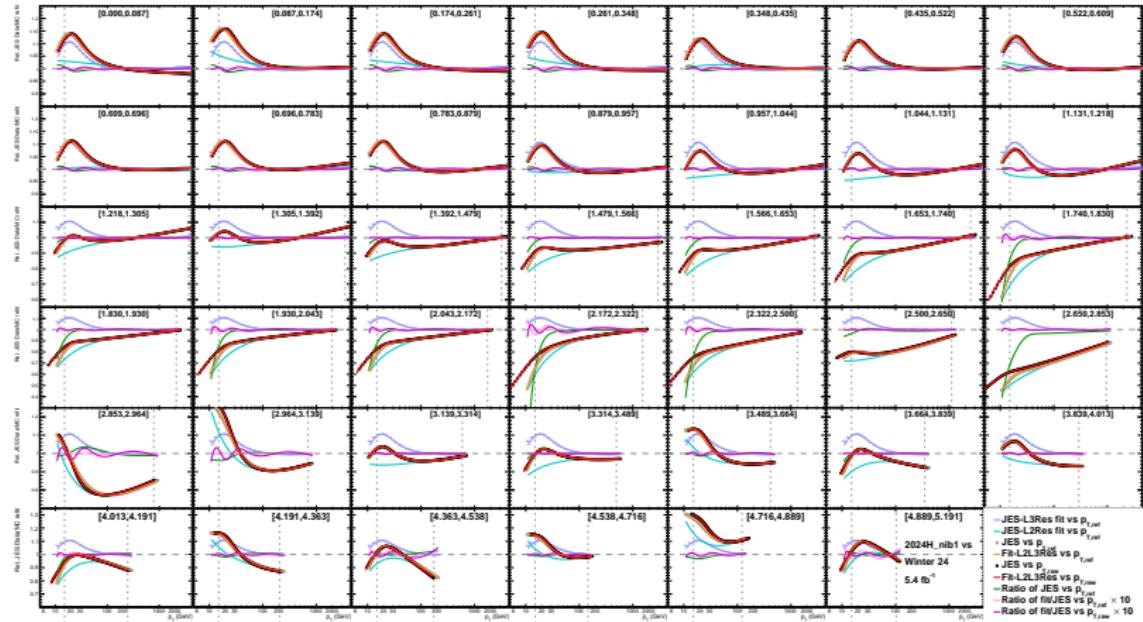
JES L2L3Res re-fits (V8M): 2024G_nib1



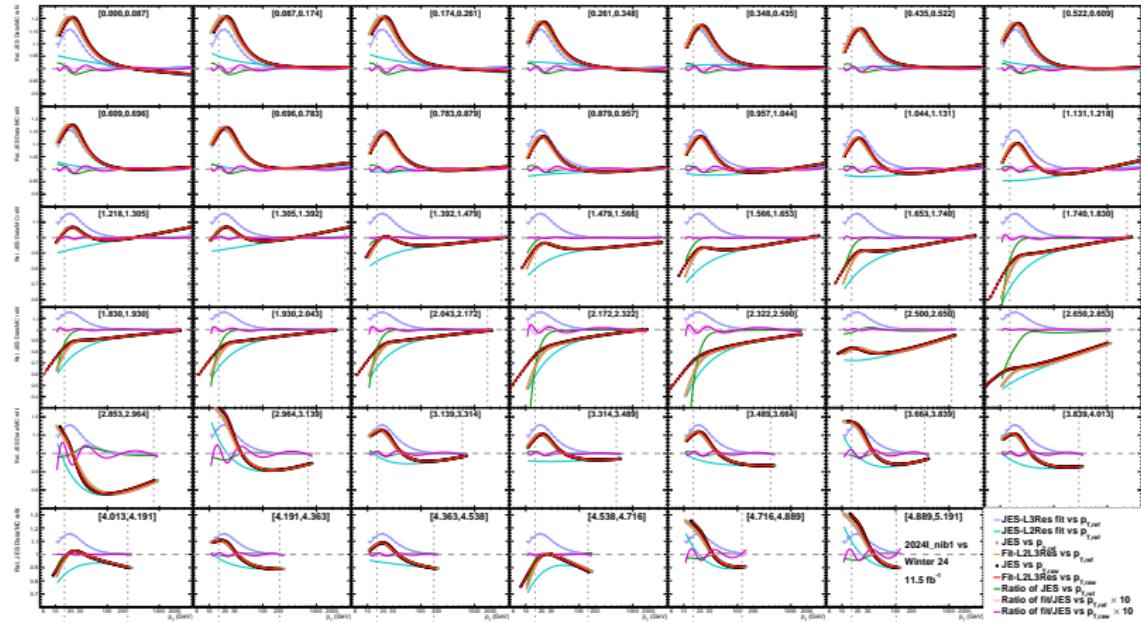
JES L2L3Res re-fits (V8M): 2024G_nib2



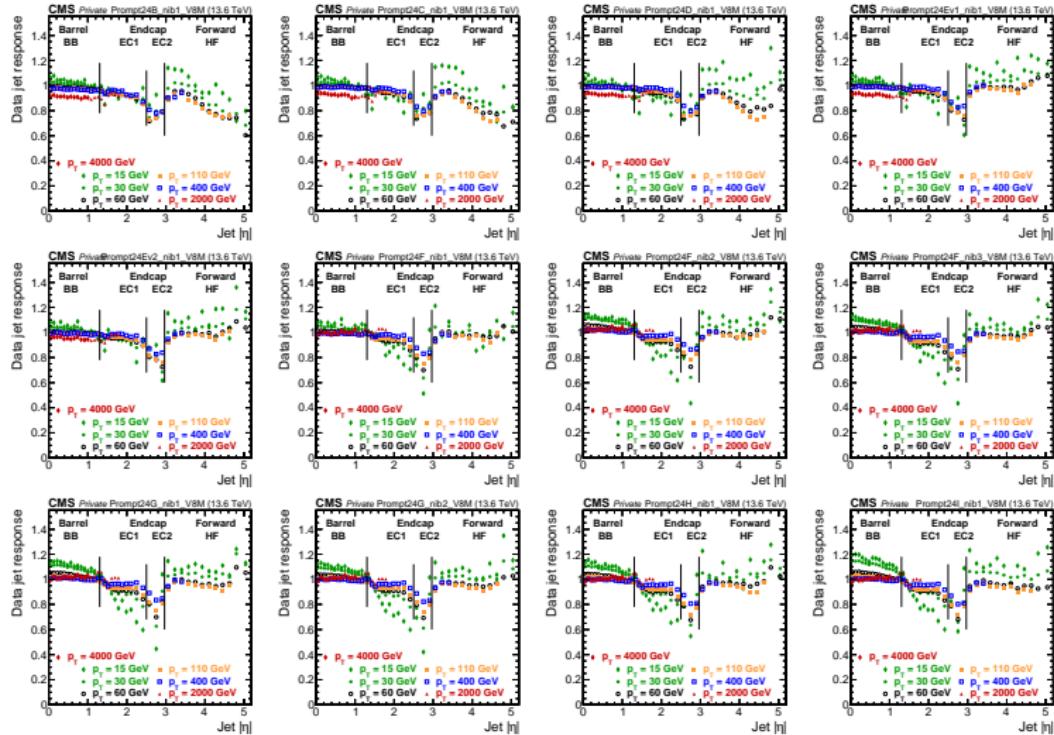
JES L2L3Res re-fits (V8M): 2024H_nib1



JES L2L3Res re-fits (V8M): 2024I_nib1



JES L2L3Res (V8M)



JES L2Res only (V8M)

