

Impact of In-HCAL descoping options on PYTHIA Jet Performance

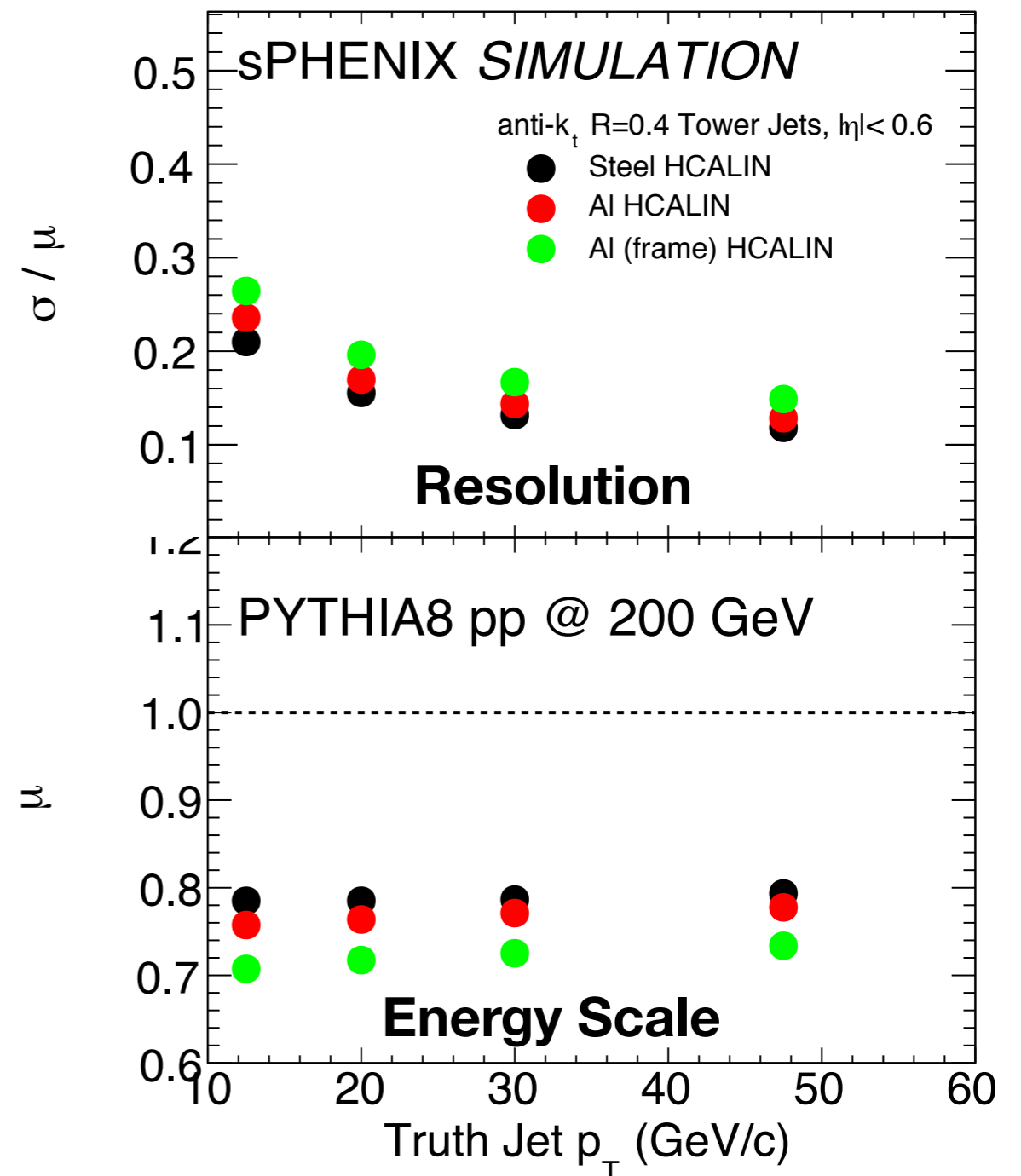
Raghav Kunnawalkam Elayavalli

For the Jet Structure - TG

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Jet Energy Scale/Resolution

- Simulations performed with 2 scenarios
 - Steel HCALIN (Current)
 - AI HCALIN (as an HCAL and w/o readout - frame) <https://github.com/sPHENIX-Collaboration/macros/pull/76>
- PYTHIA-8 pthat samples
- No jet energy correction applied (resolution directly out of GEANT)
- Resolution and scale worsens when we move to Al material
- Large drop in JES/JER with just Al frame/absorber - Jets are hurt



Individual fits

