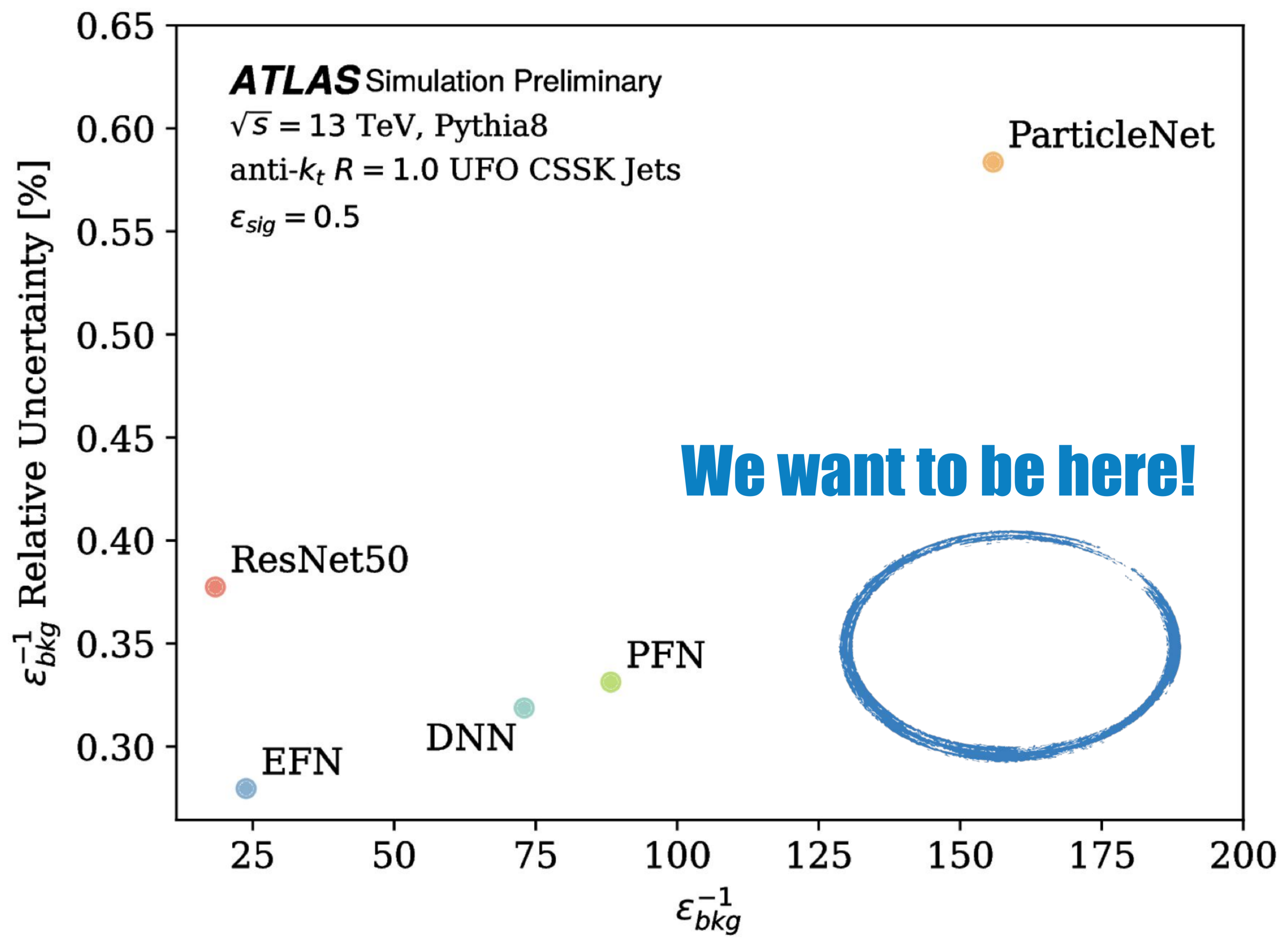
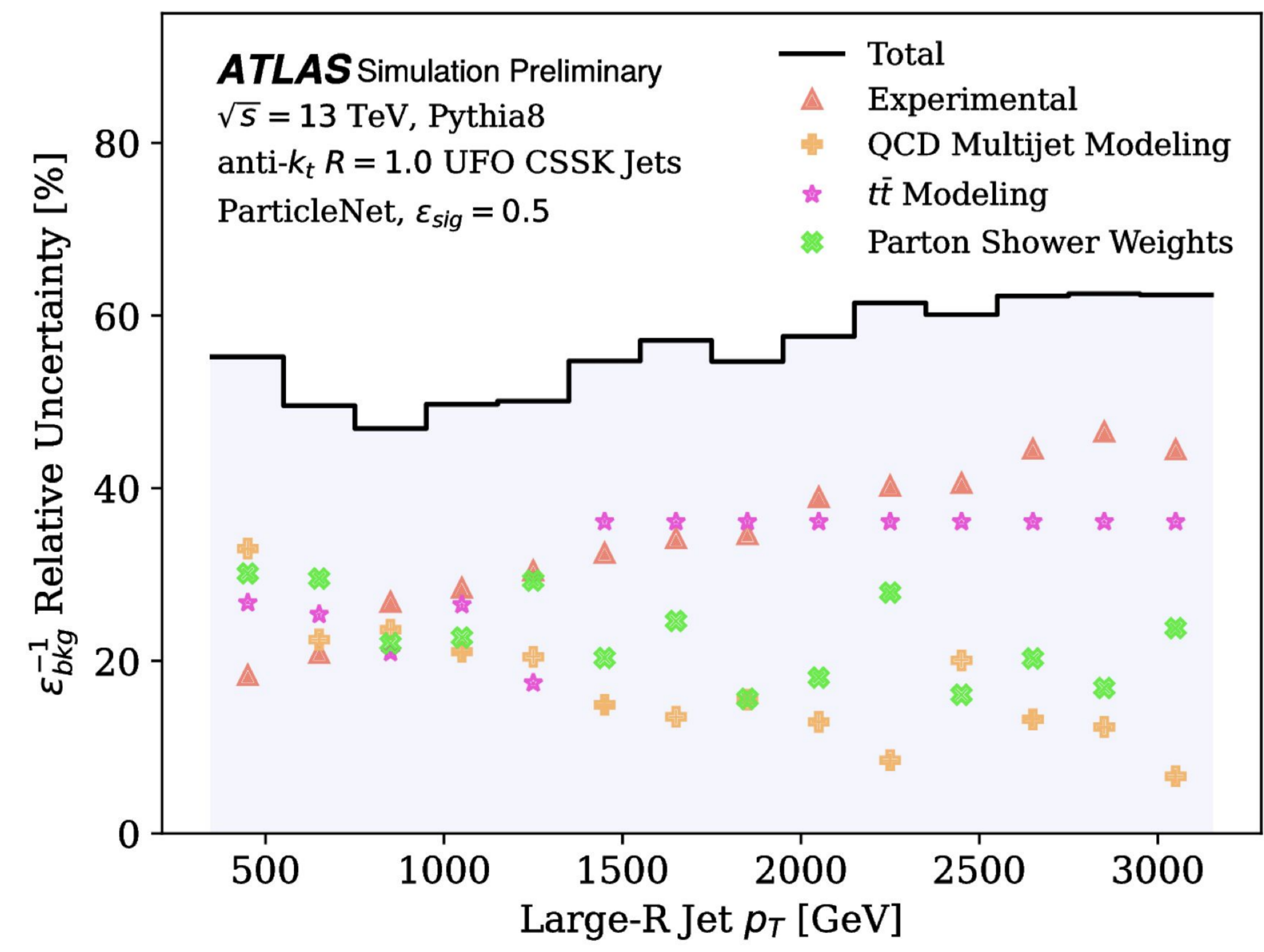
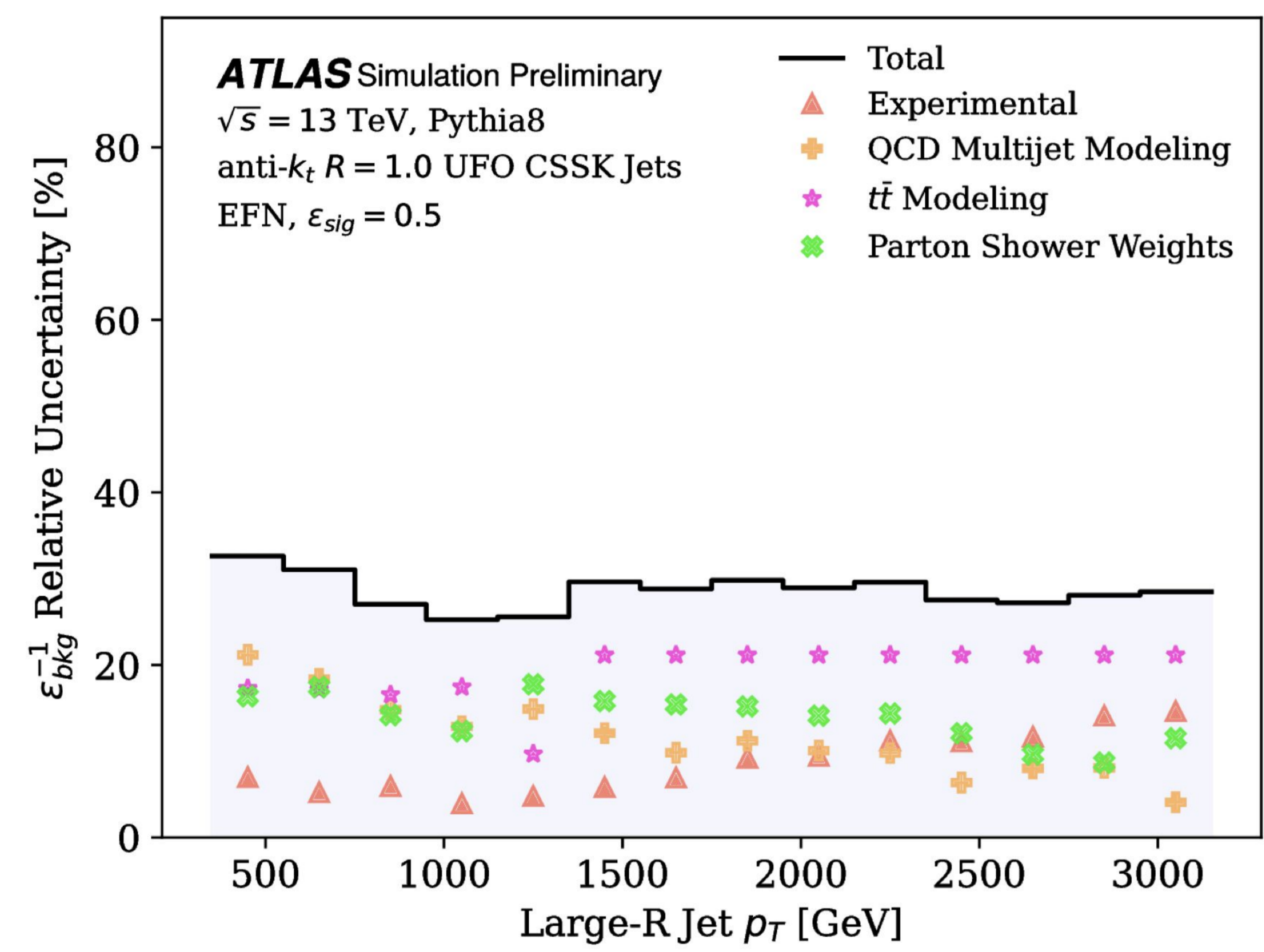


## Performance vs. Uncertainty

- Constituent-based top taggers work very well on ATLAS simulated data sets [1]
- How do **systematic uncertainties** compare between top taggers?



- The most performant taggers also produce the largest uncertainties
- Possible future direction is to reduce these uncertainties through resilient architectures or training on data

References: [1] ATLAS Collaboration. "Constituent-Based Top-Quark Tagging with the ATLAS Detector". ATL-PHYS-PUB-2022-039

### Taggers Considered:

