ATRAPP Meeting

Jeremy Couthures

Moving to Athena

1) Move the Hashing code to core:

- 1) Move the code to core (local) \checkmark
- 2) Make the code compile \checkmark
- 3) Ensure same results than before \checkmark

4) Pull requests: Hashing \checkmark , Event Timing (-), Root seed writer \checkmark , Root comparison \checkmark

2) Link ACTS+Hashing version in Athena (TWiki) $\sqrt{}$

- 3) Reproduce official plots (slide 17) (with Florencia):
 - 1) Athena + Default: $\mu = 0 \checkmark$; $\mu = 200 \checkmark$

2) Athena + ACTS μ = 0 \checkmark ; μ = 200 \checkmark

4) Edit seeding tool (in Athena) with Hashing \checkmark

5) Reproduce the plots with Hashing (Eff \checkmark + CPU)

Manuscript

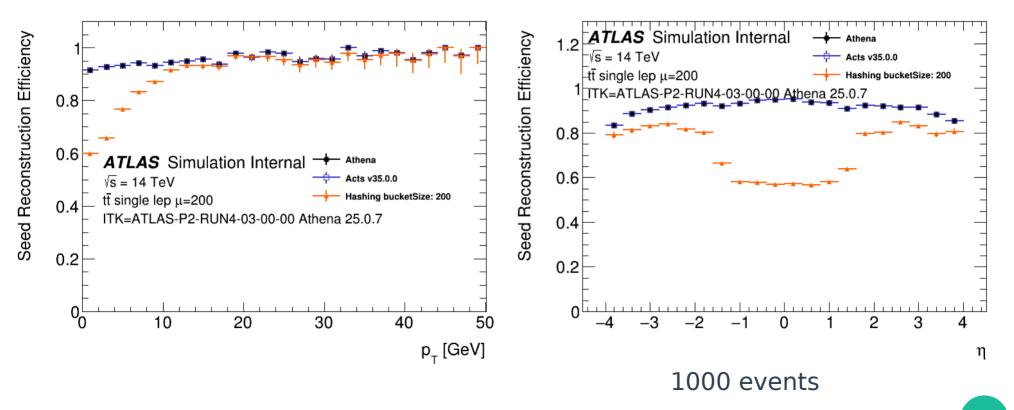
50 pages of content (not all finished written)

- Chapter 4: 25 pages (not finished)

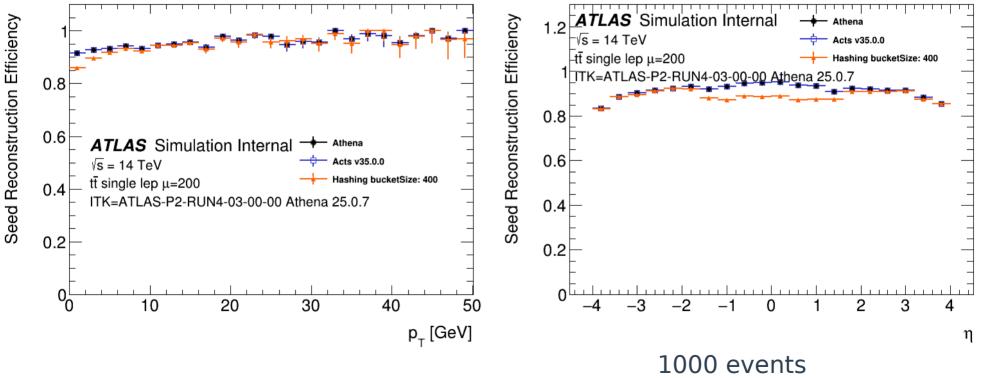


No new plots

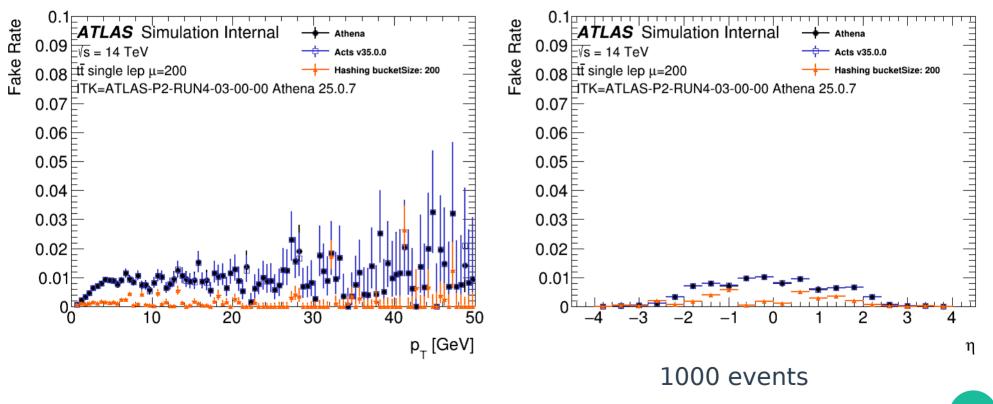




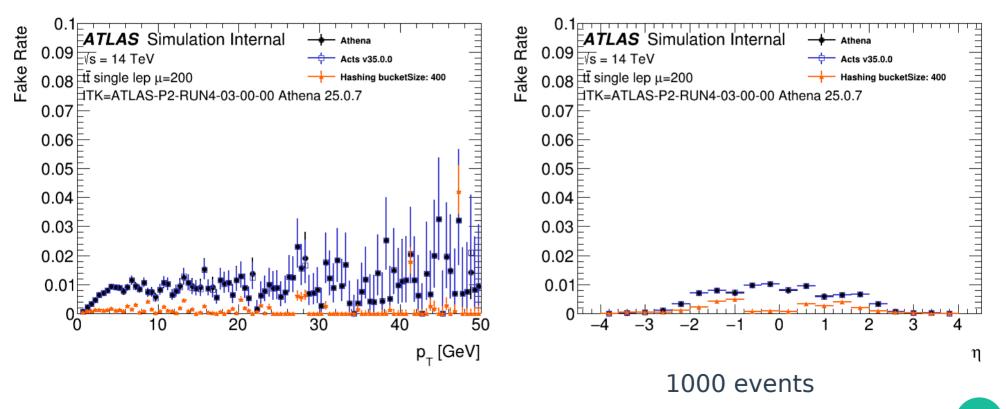
09/03/24

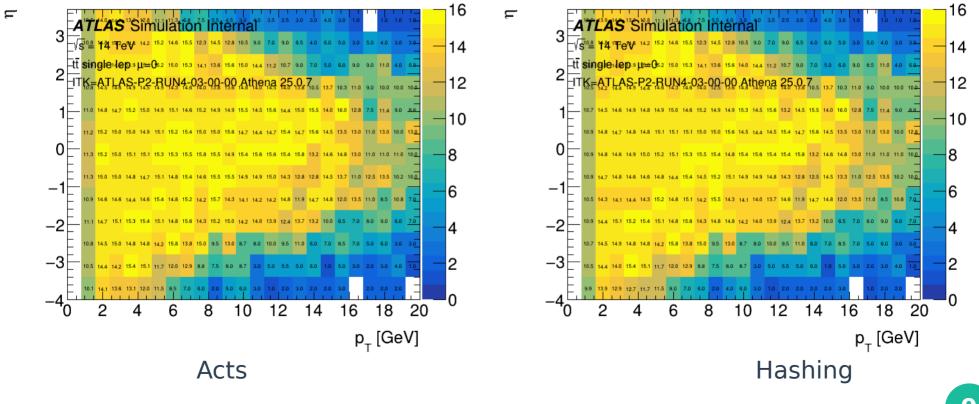


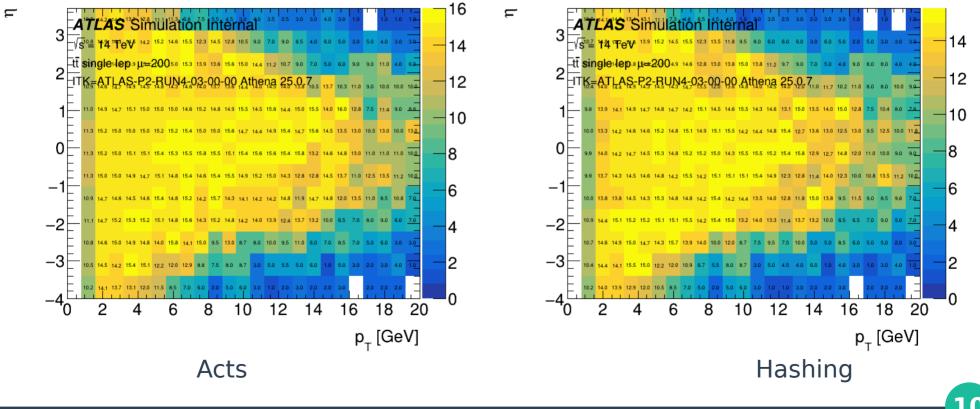
6





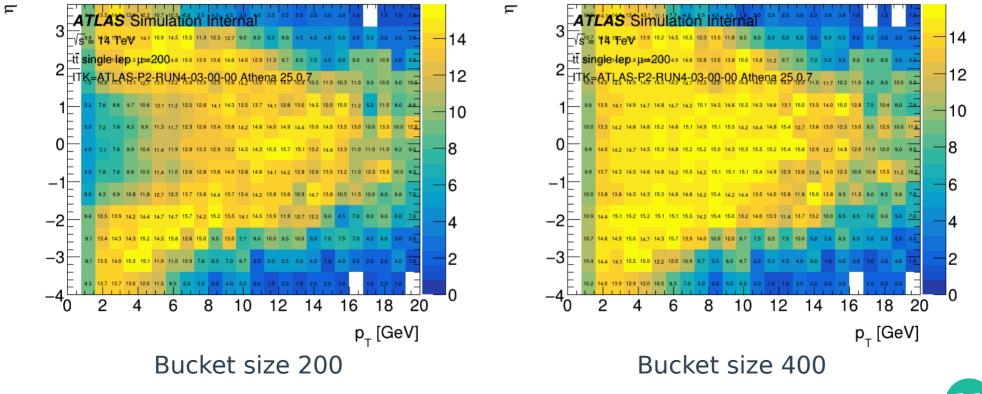






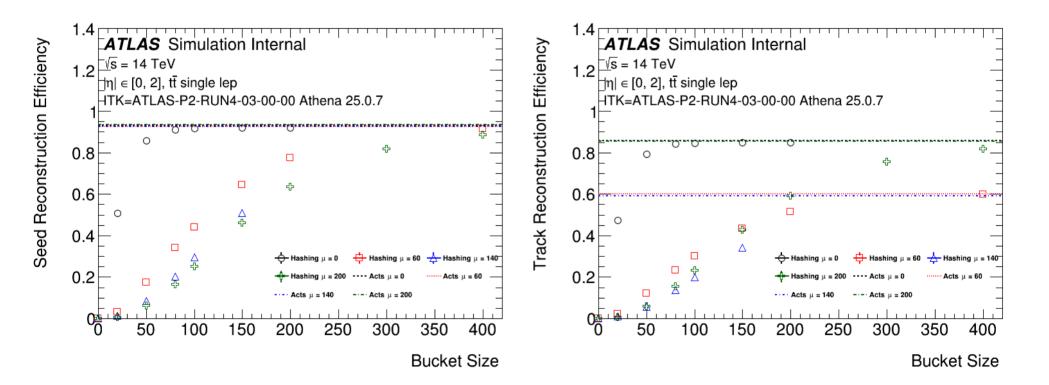
09/03/24

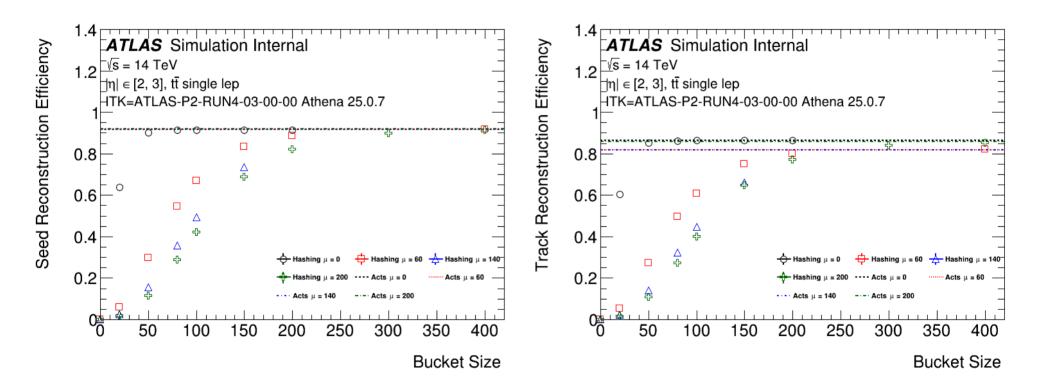
10

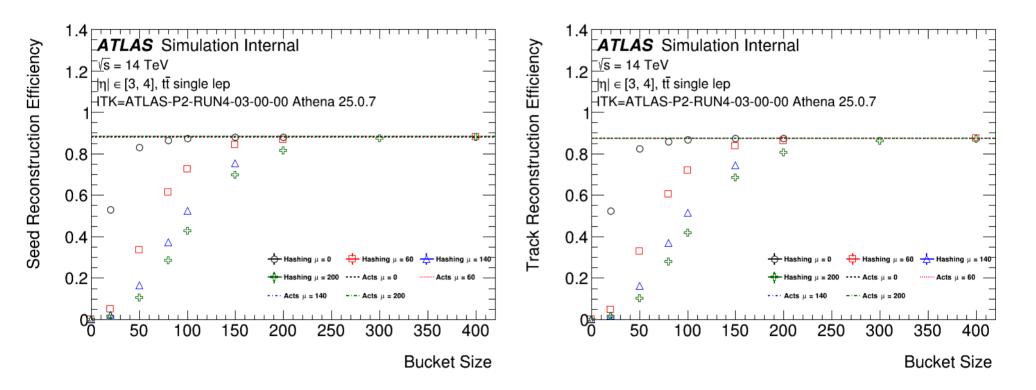


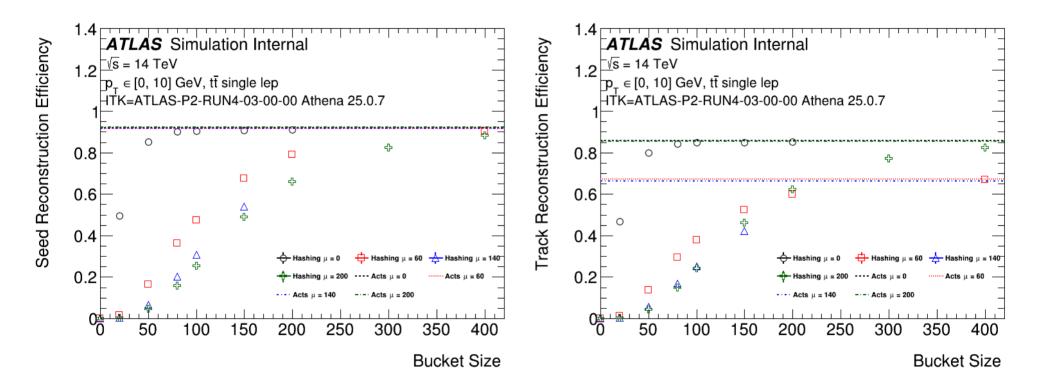
09/03/24

11

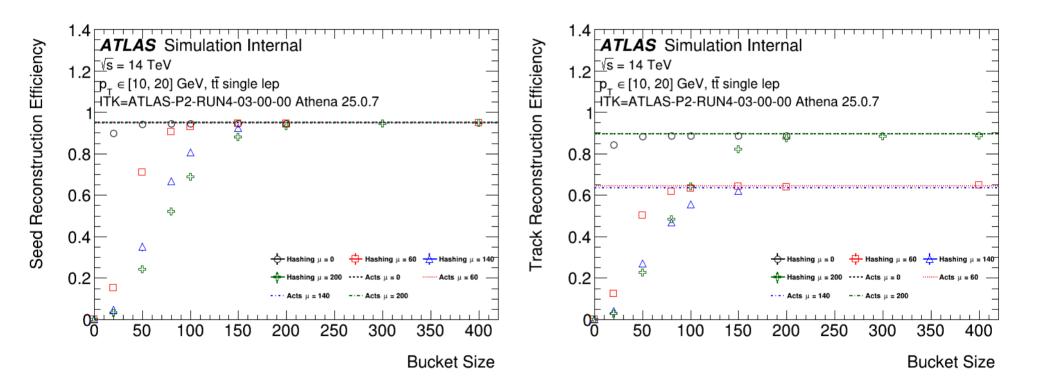


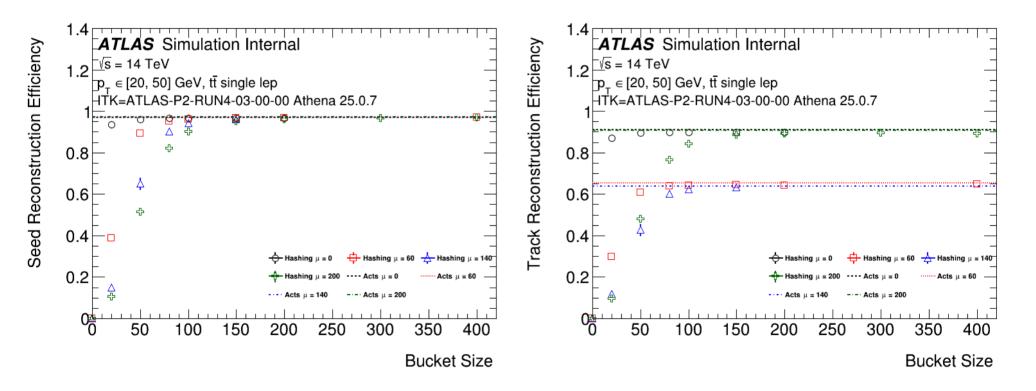














1) Get the data from GNN people (SP and truth) (Alexis) (Dumped files) (Dumping code)

2) Train NN (using acorn? It can already read the dumped files)

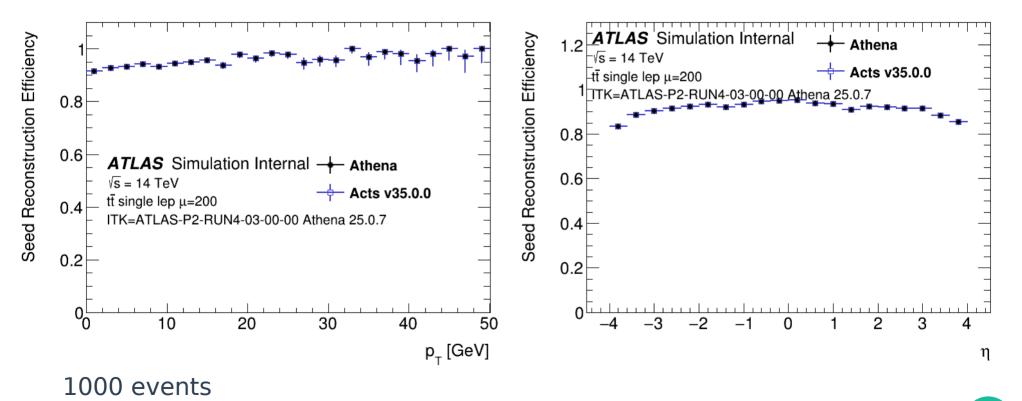








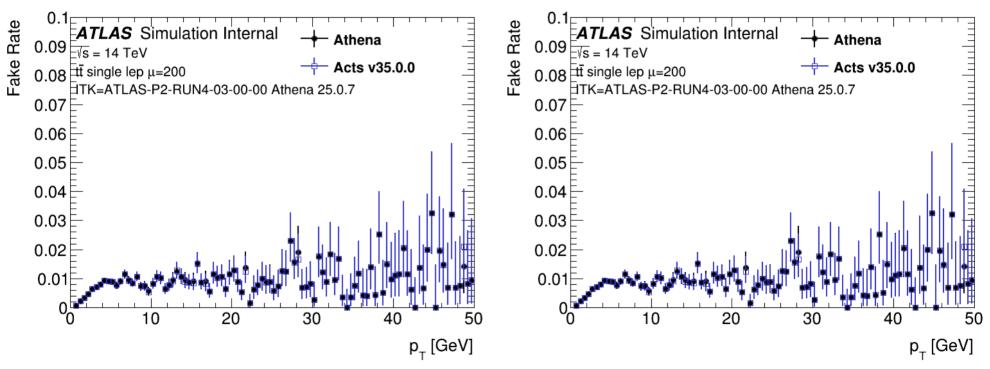
Setup validation: Efficiency μ =200



09/03/24

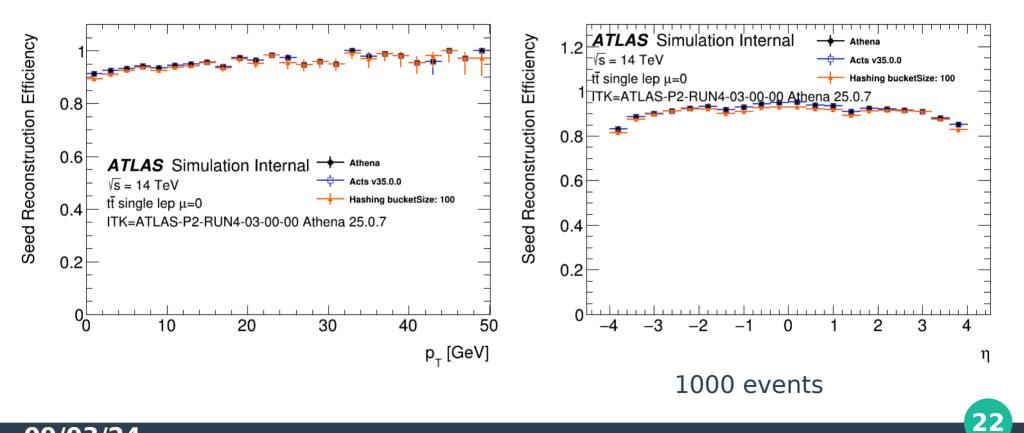
20

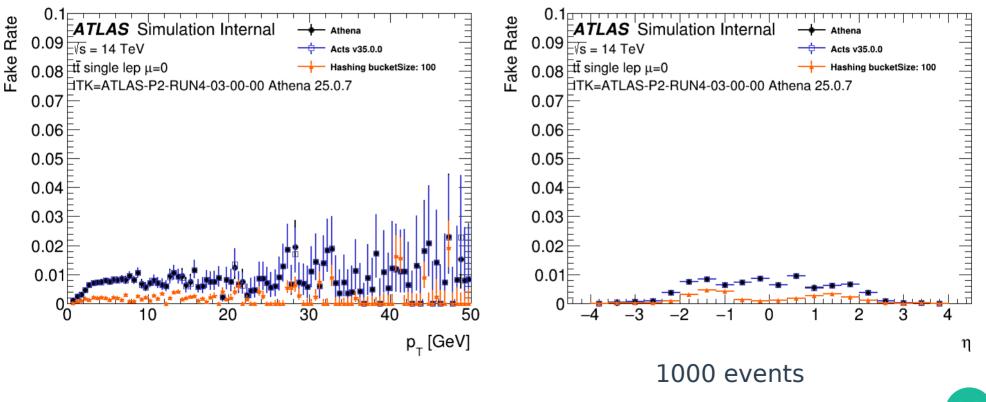
Setup validation: Fake Rate μ =200



21

1000 events





Acorn metric learning

