

# **ATRAPP Meeting**

## **Planning progression**

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# Official ITk plots

## 1) Move the Hashing code to core:

- 1) Move the code to core (local) ✓
- 2) Make the code compile ✓
- 3) Ensure same results than before ✓
- 4) Pull requests: Hashing **WIP**, Container Policy, Event Timing (—), Root seed writer ✓, Root comparison ✓

## 2) Link ACTS+Hashing version in Athena (TWiki) ✓

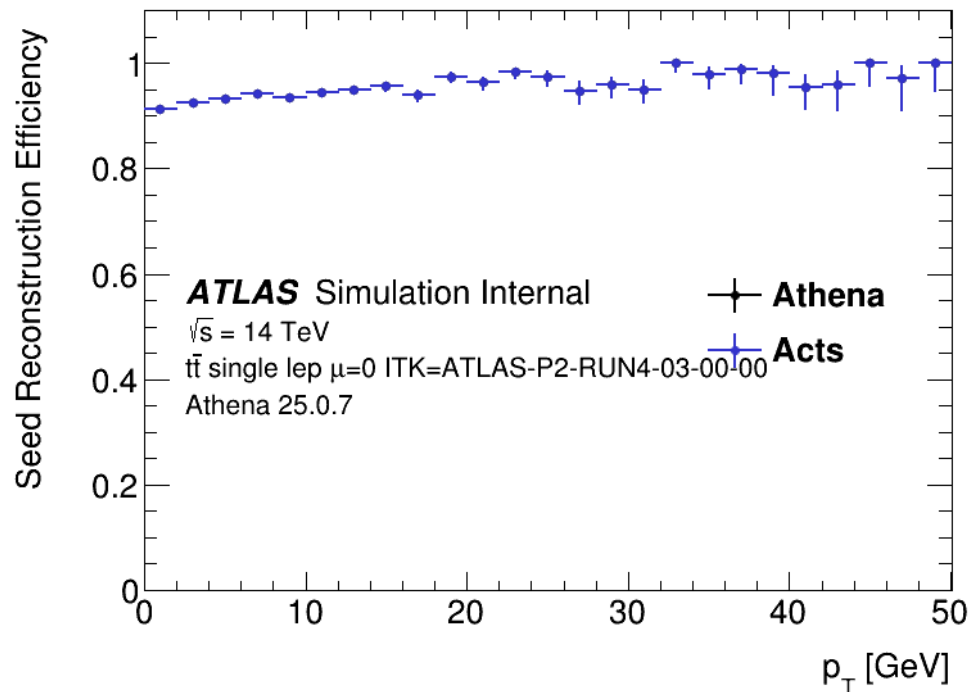
## 3) Reproduce **official plots** (slide 17) (with Florencia):

- 1) Athena + Default:  $\mu = 0$  ✓;  $\mu = 200$  ✓
- 2) Athena + ACTS  $\mu = 0$  ✓;  $\mu = 200$  ✓
- 3) Athena + ACTS (custom)  $\mu = 0$ ;  $\mu = 200$

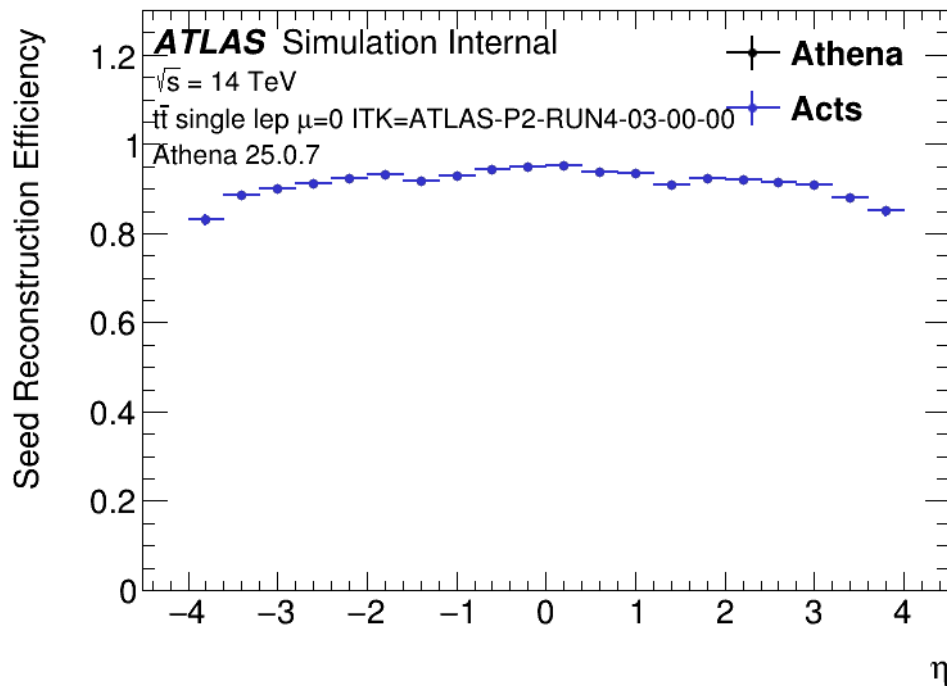
## 4) Edit seeding tool (in Athena) with Hashing **WIP**

## 5) Reproduce the plots with Hashing (Eff + CPU)

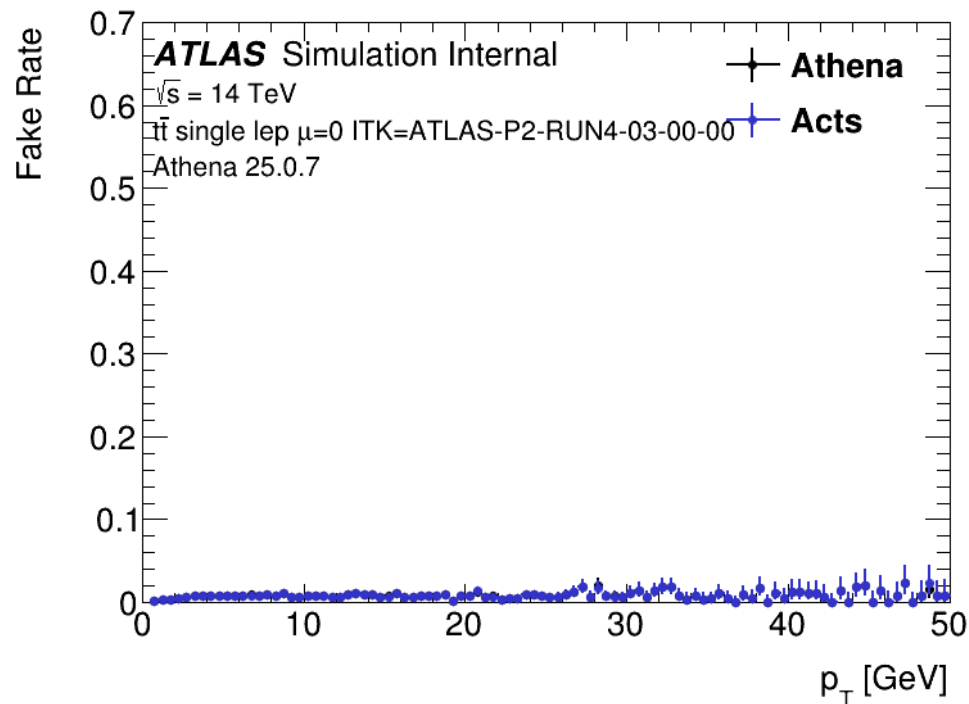
# Efficiency $\mu=0$



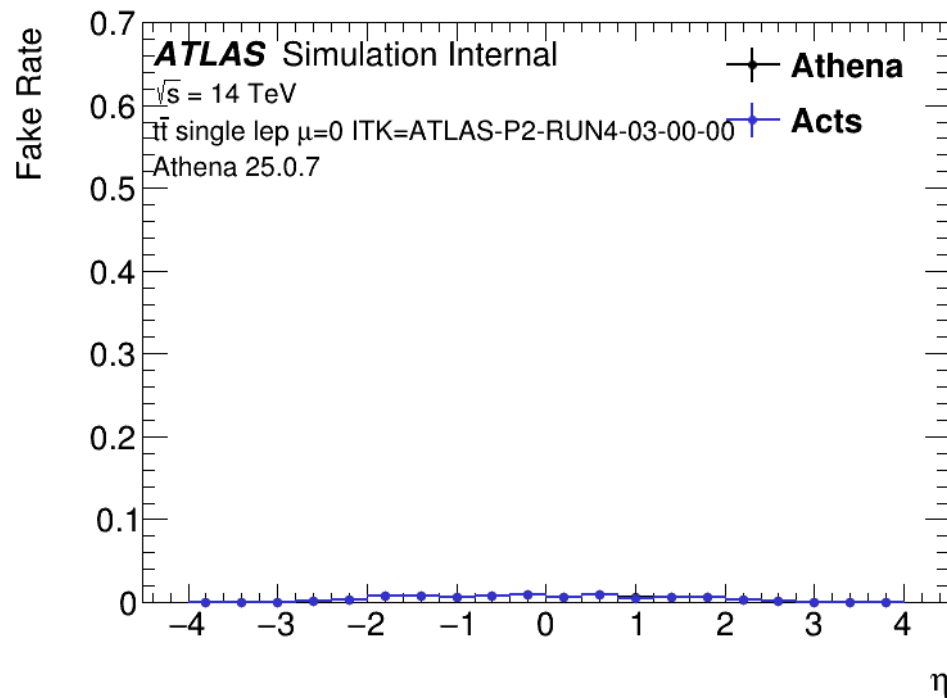
1000 events



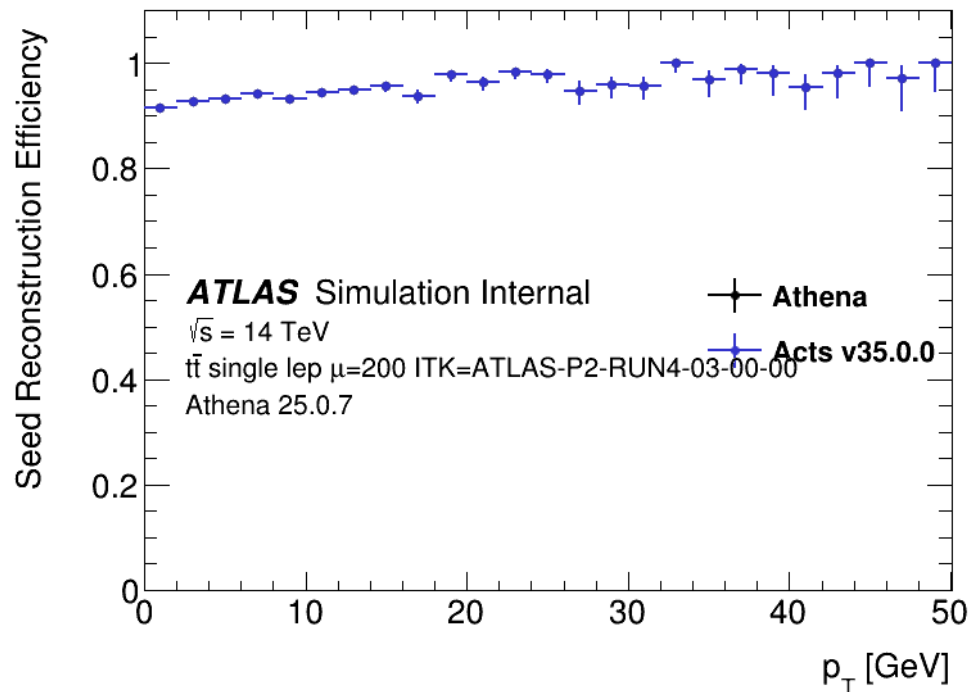
# Fake Rate $\mu=0$



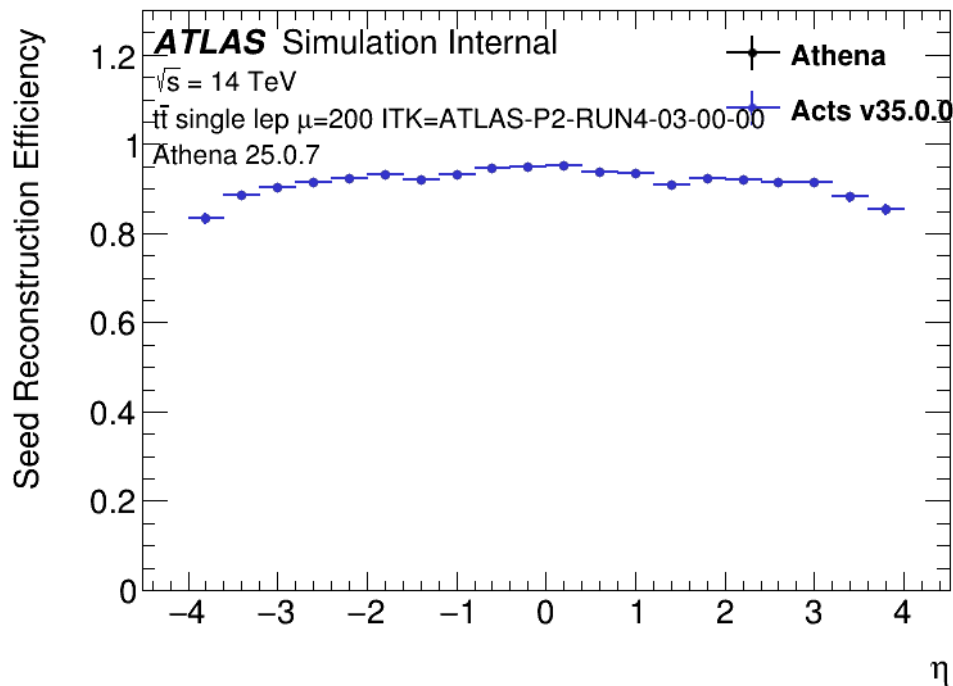
1000 events



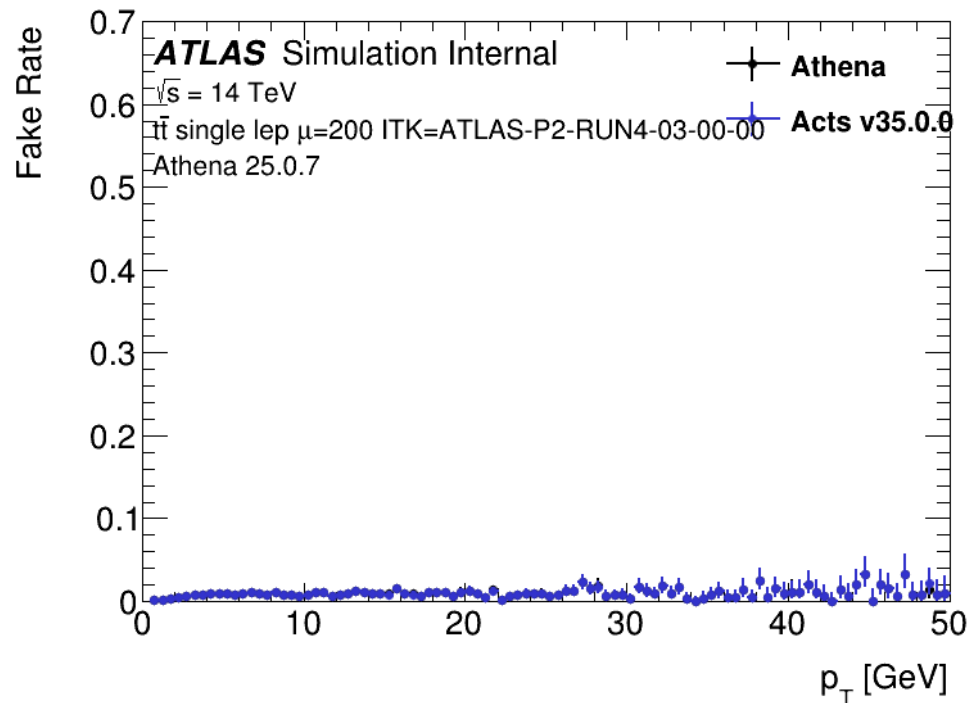
# Efficiency $\mu=200$



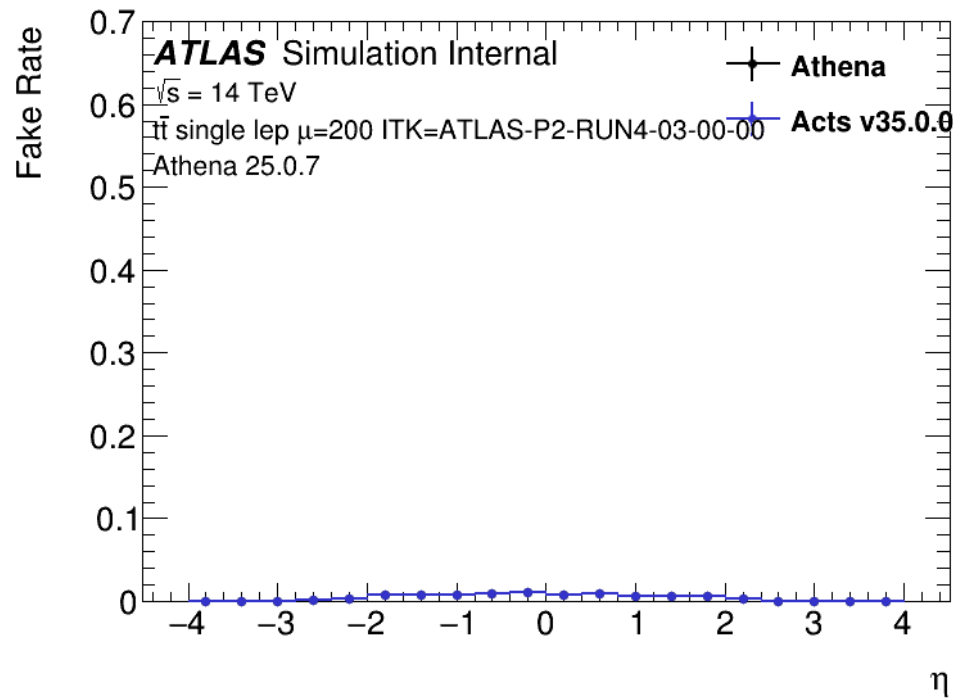
1000 events



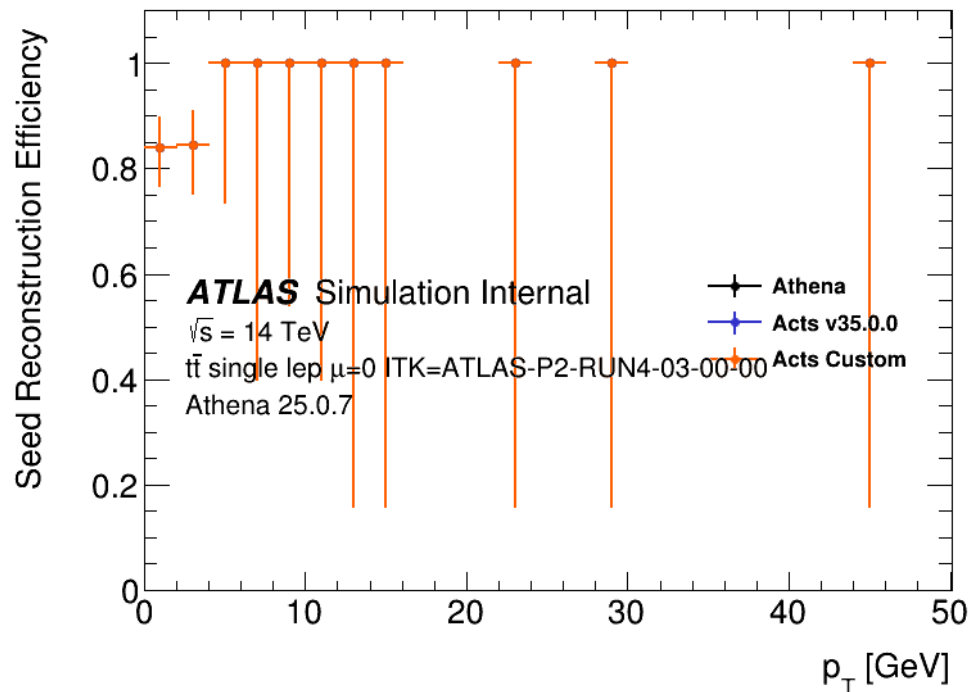
# Fake Rate $\mu=200$



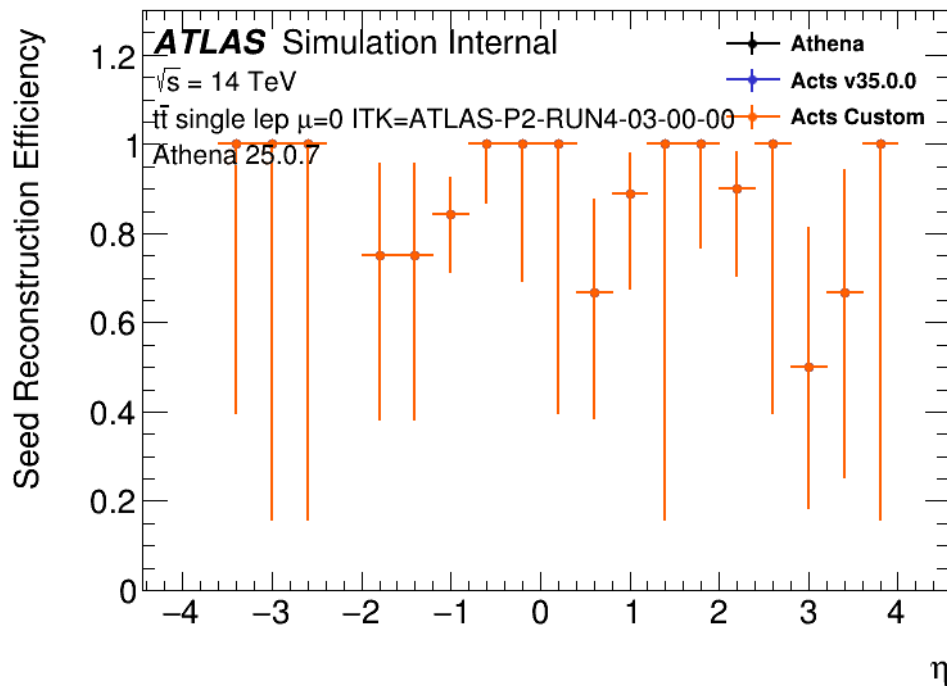
1000 events



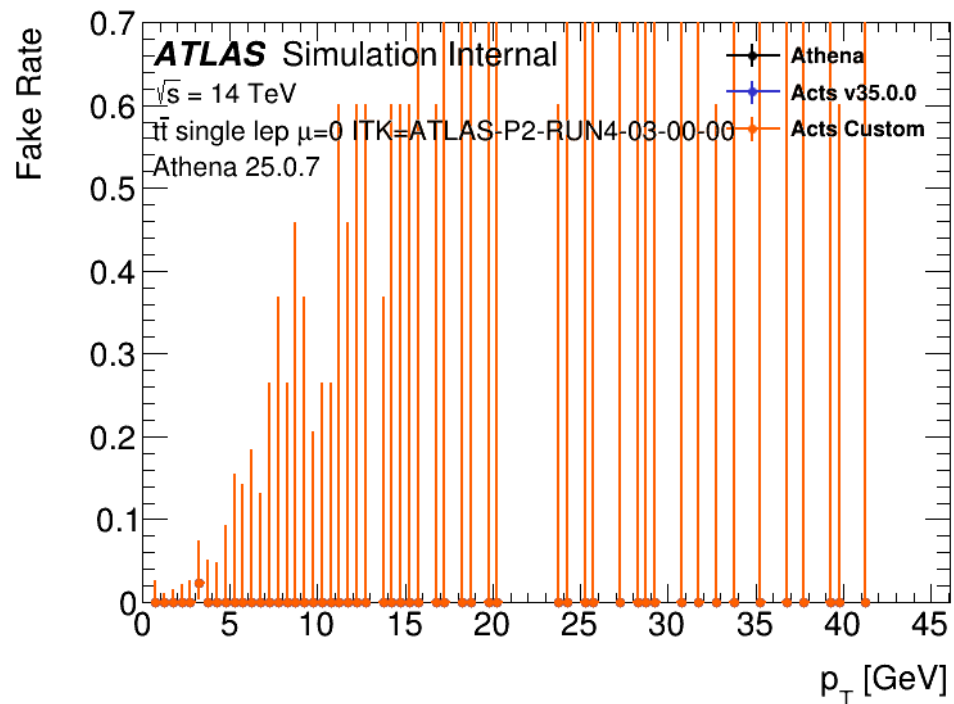
# Efficiency $\mu=0$ 2 events



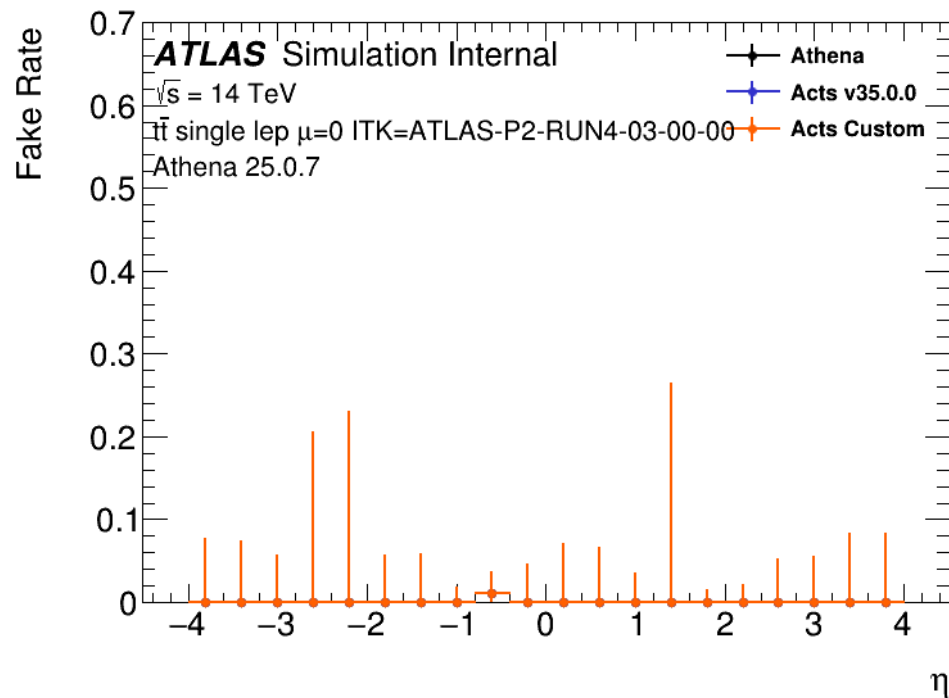
1000 events



# Fake Rate $\mu=0$ 2 events



1000 events





# Next

- 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)