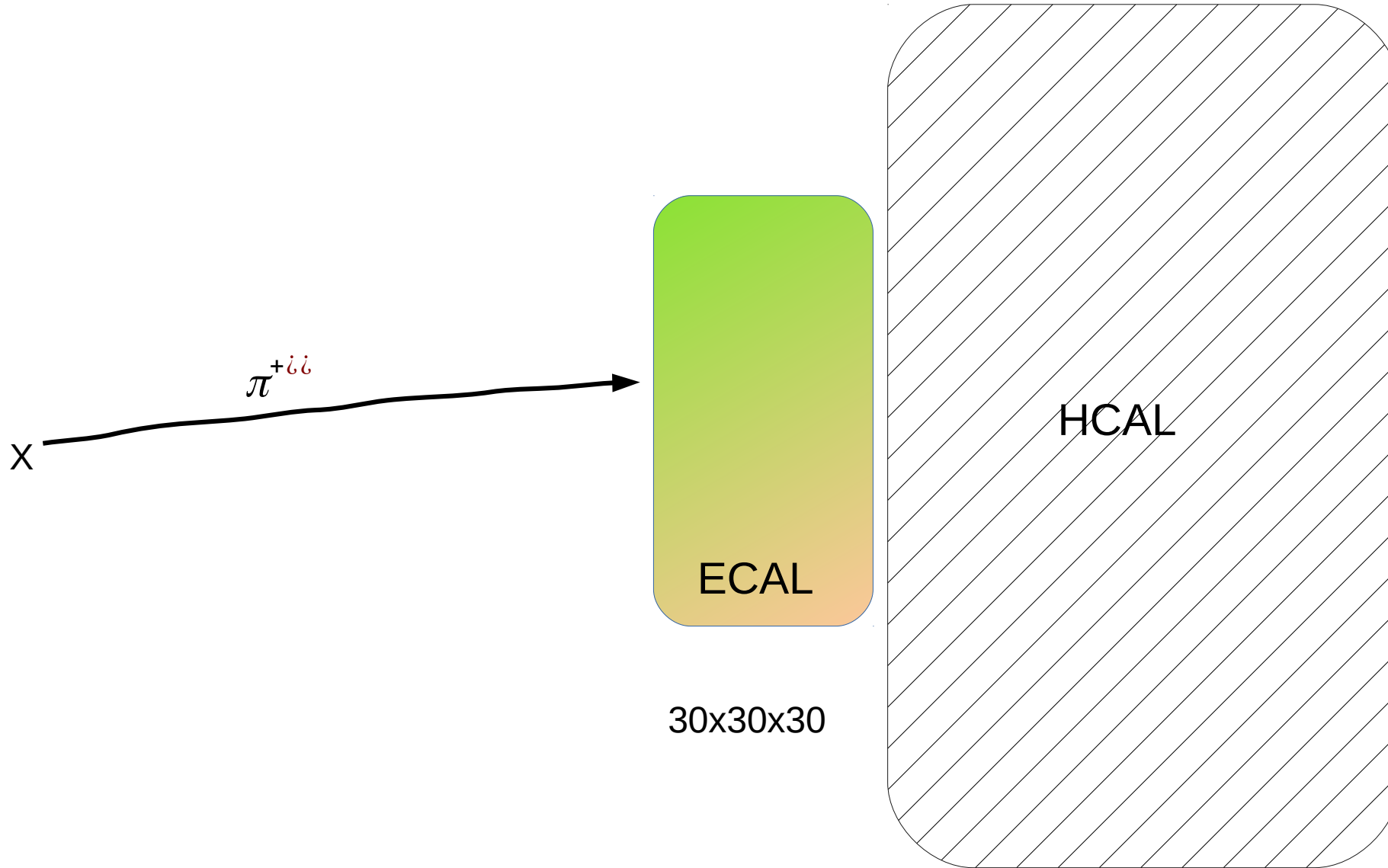


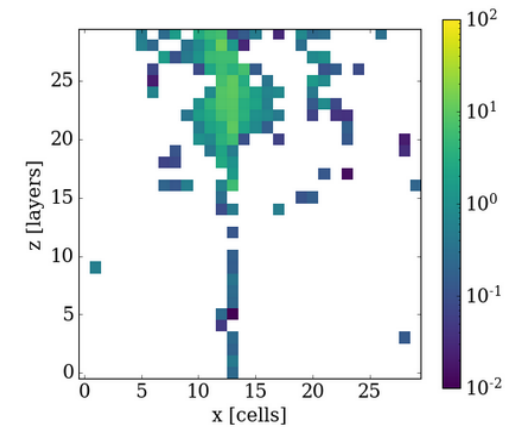
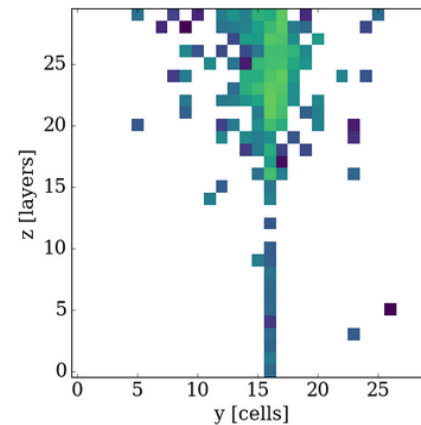
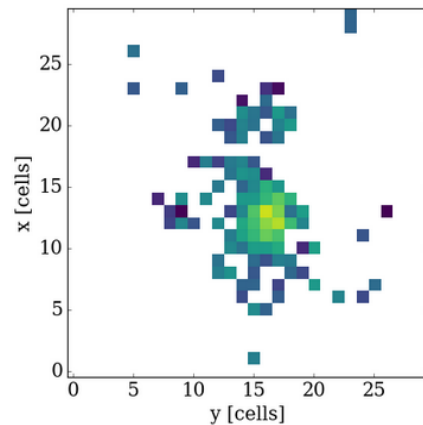
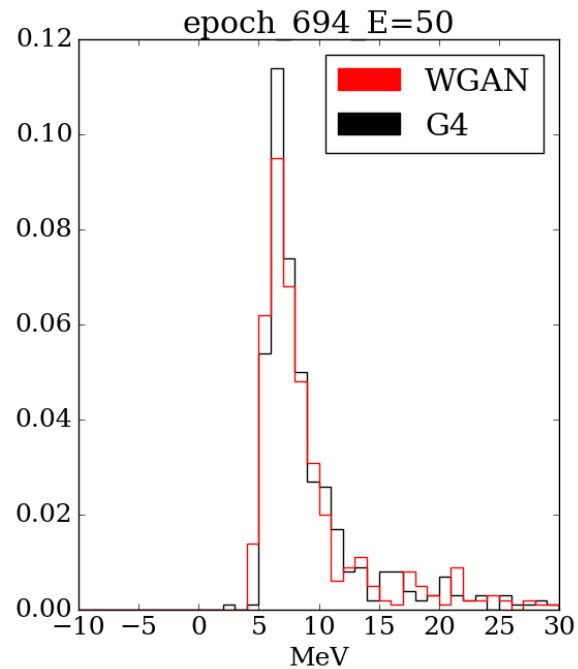
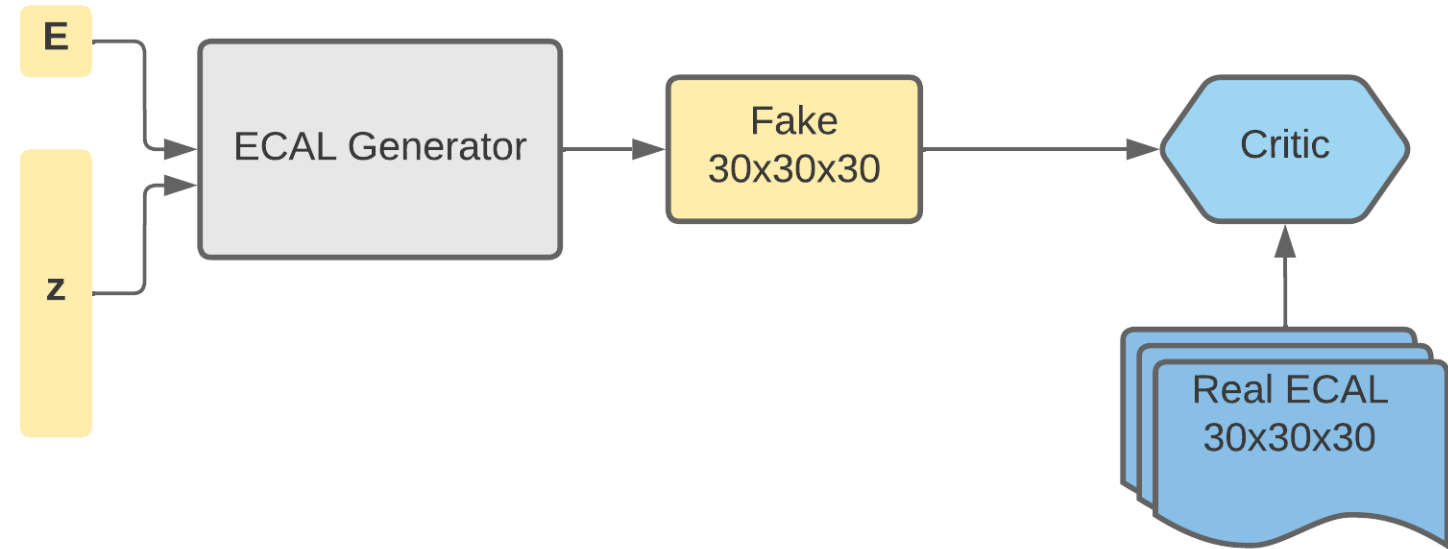
# Pion showers in the ECAL + HCAL system



Combined dataset is ready with 3 single point energies (40, 50 and 60 GeV)

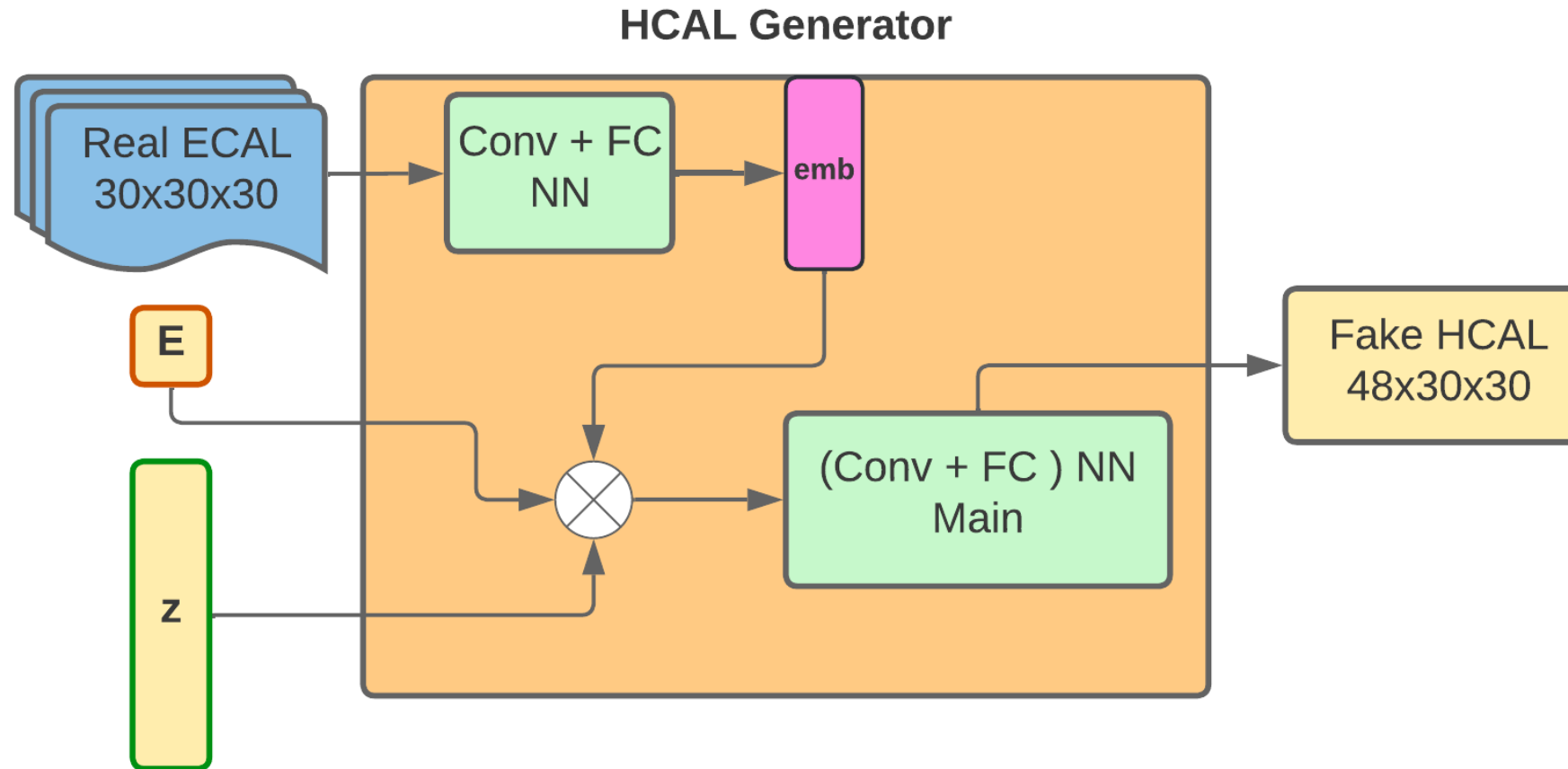
# Pion showers in the ECAL + HCAL system

First step was the **ECAL-only** training: ✓



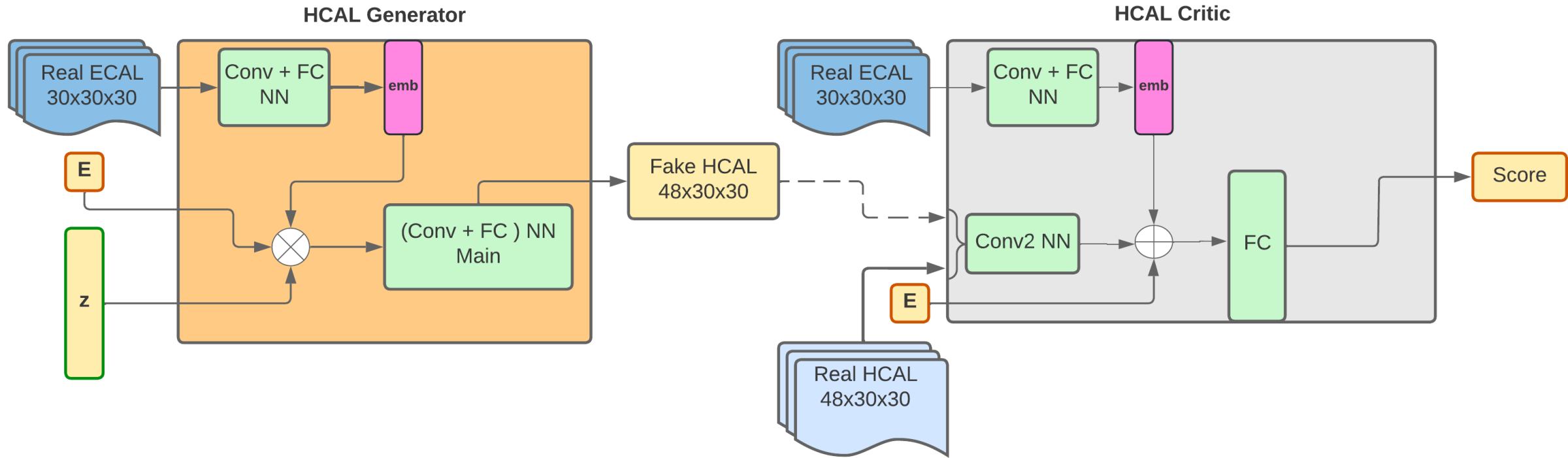
# Pion showers in the ECAL + HCAL system

HCAL generator



# Pion showers in the ECAL + HCAL system

During the training:



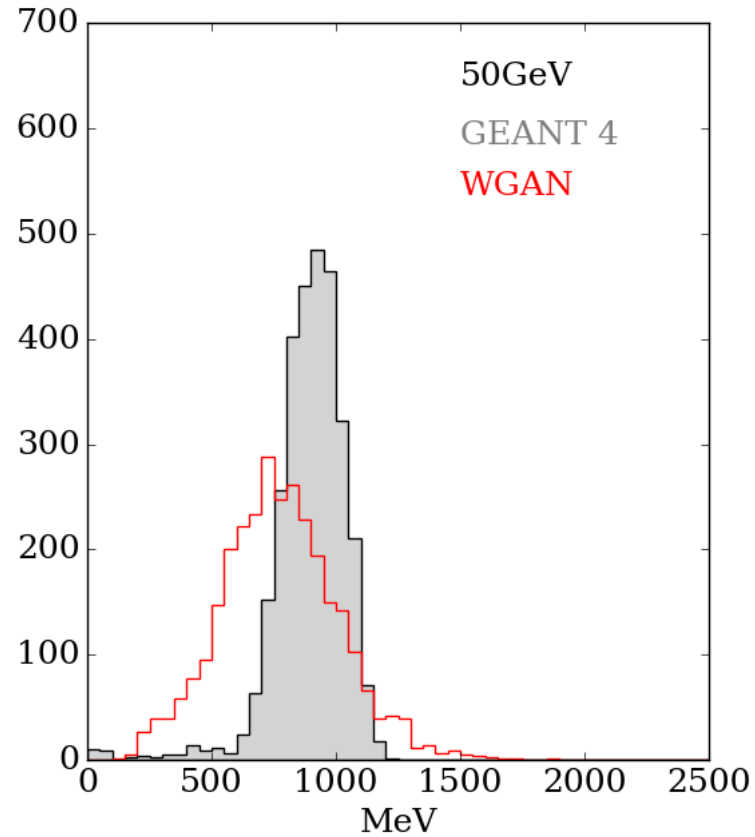
During the total inference:

$$G_{ECAL}(z, E) + G_{HCAL}[G_{ECAL}(z, E), z, E]$$

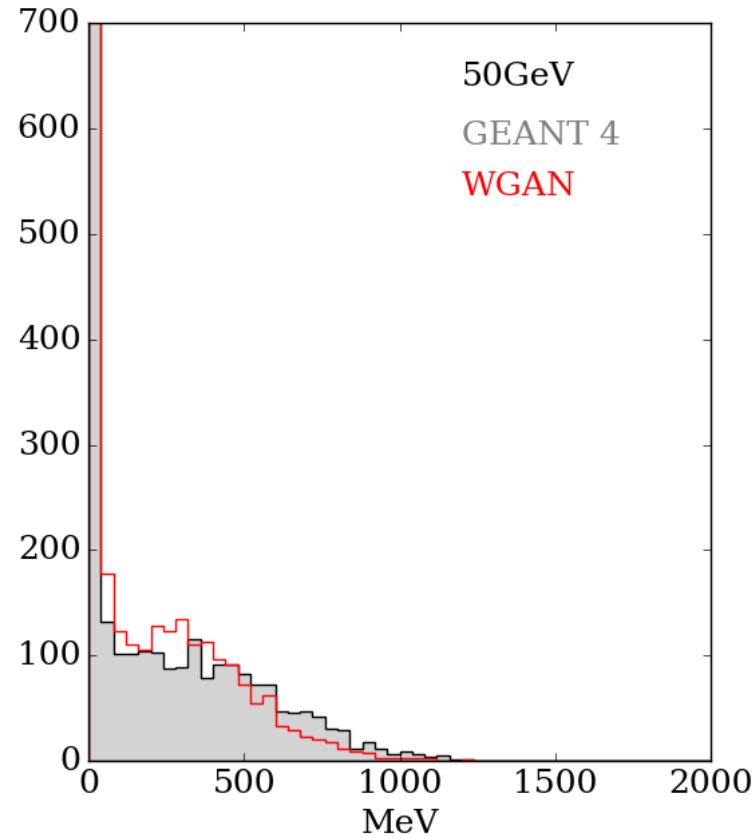
# Pion showers in the ECAL + HCAL system

Some preliminary results with current best epoch  
Cell energies  $> 0.25$  MeV

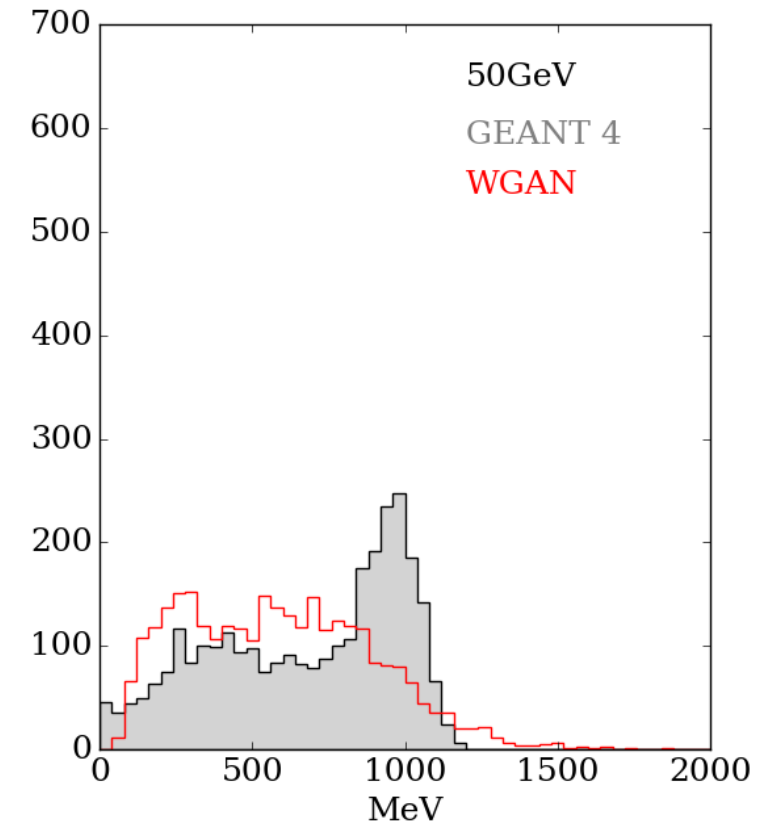
Total Energy Sum



ECAL

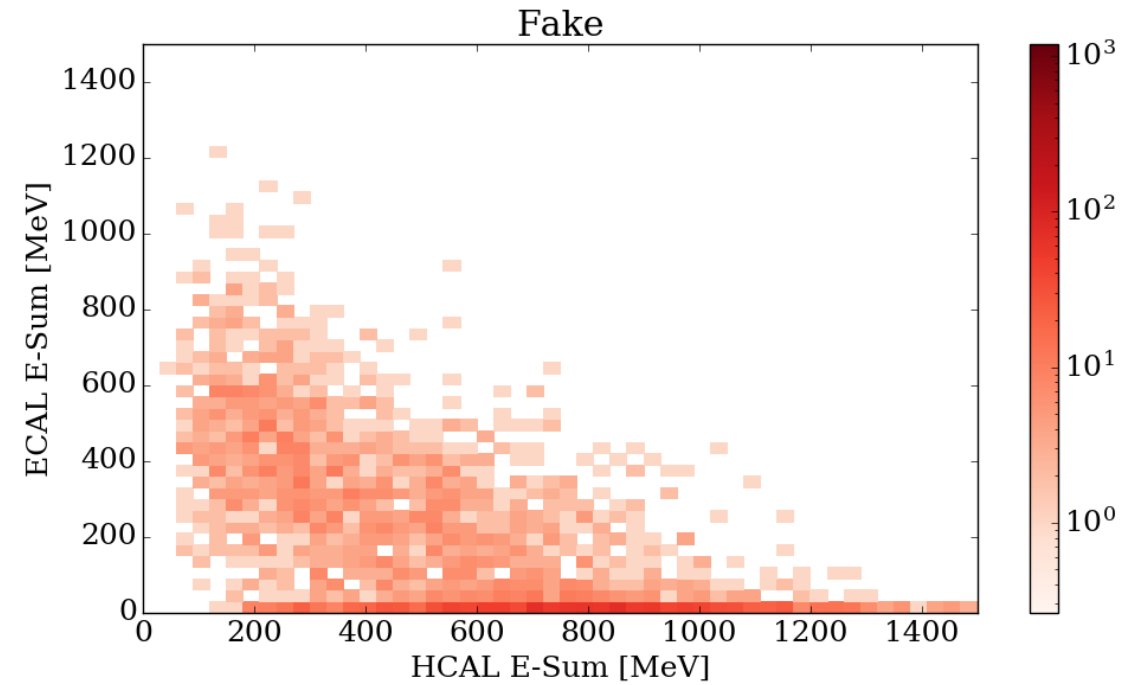
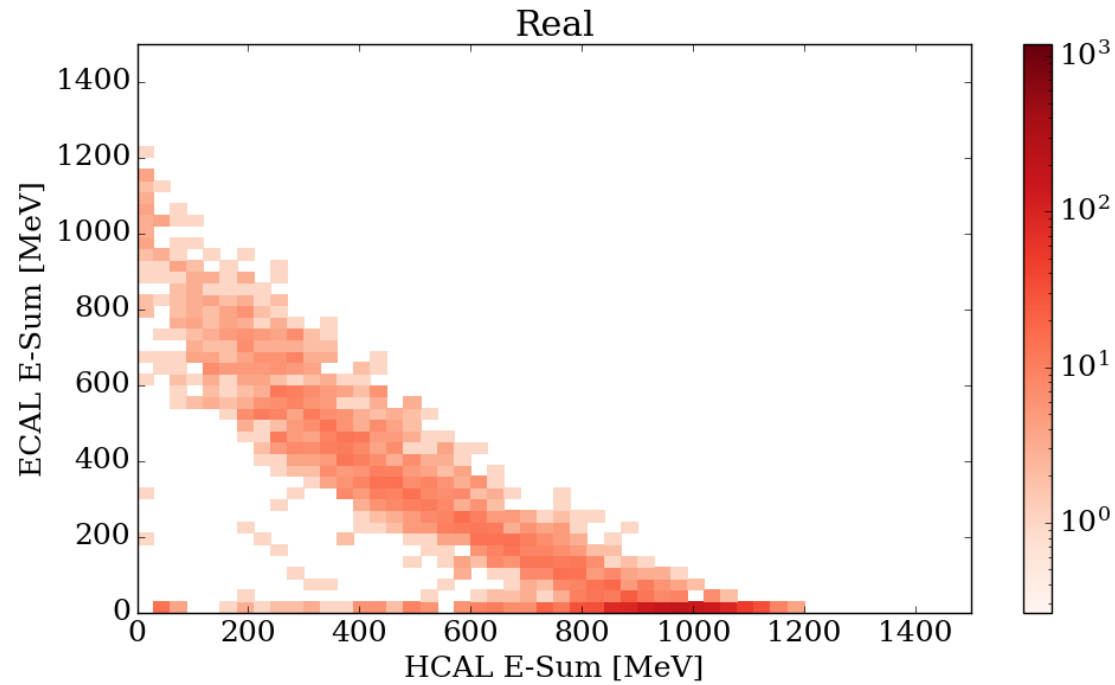


HCAL



# Pion showers in the ECAL + HCAL system

Some preliminary results..



# Pion showers in the ECAL + HCAL system

Some preliminary results..

