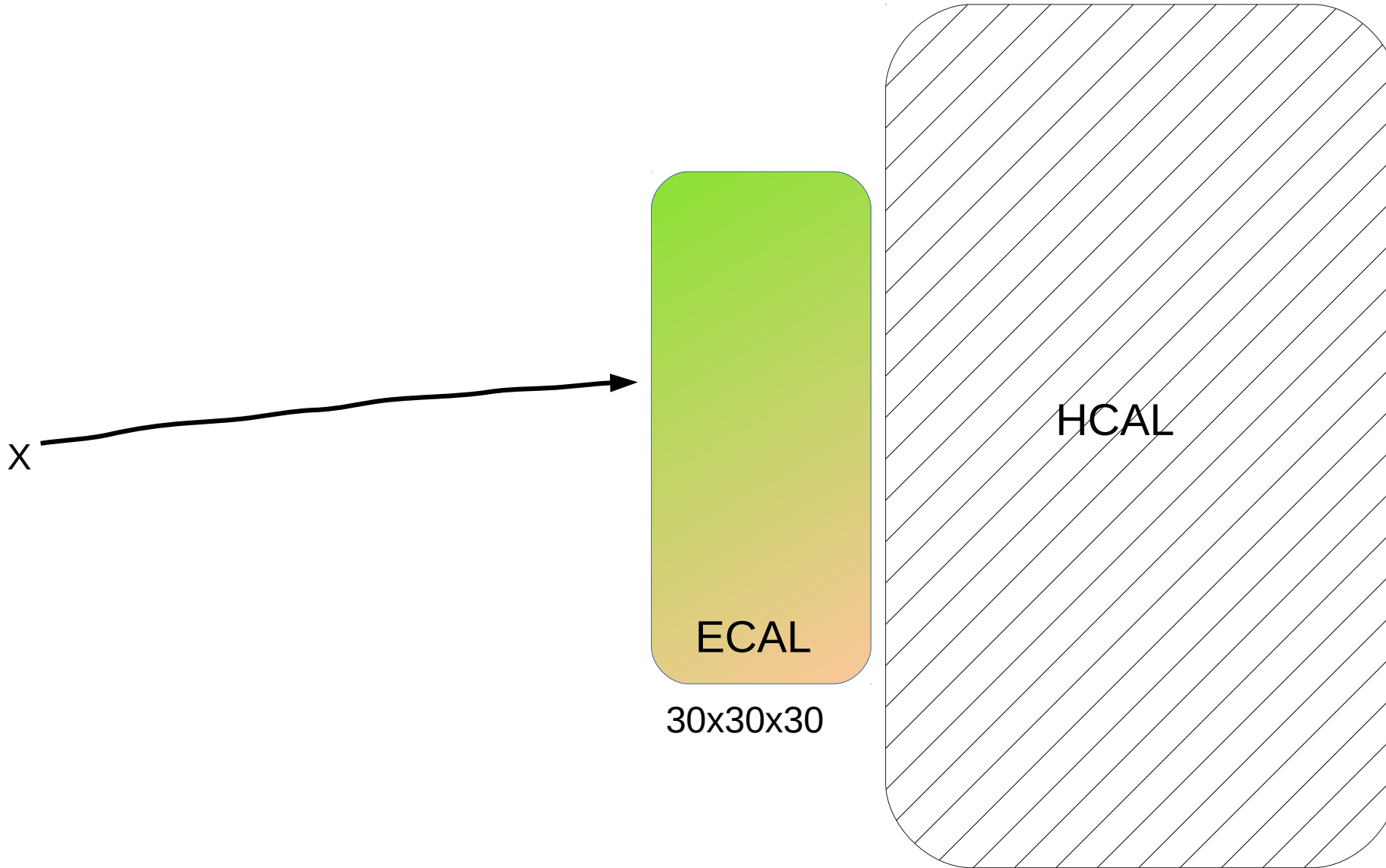


Pion showers in the ECAL + HCAL system



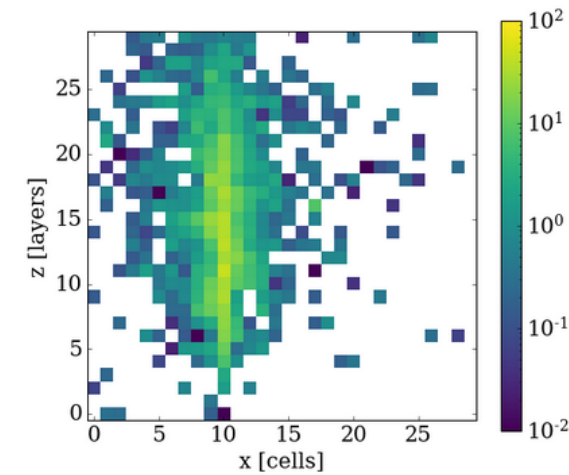
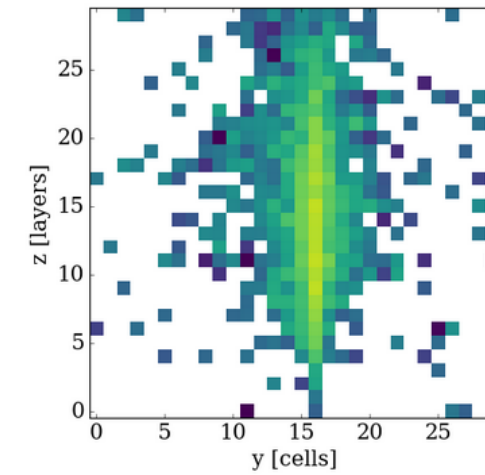
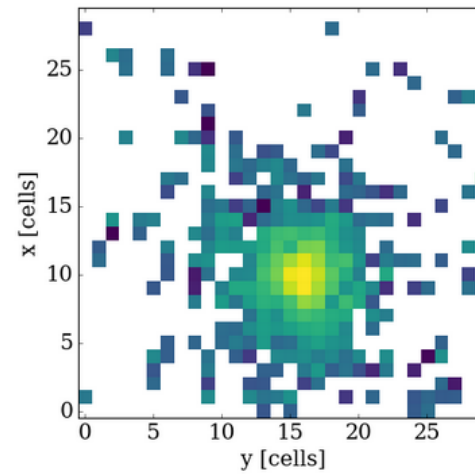
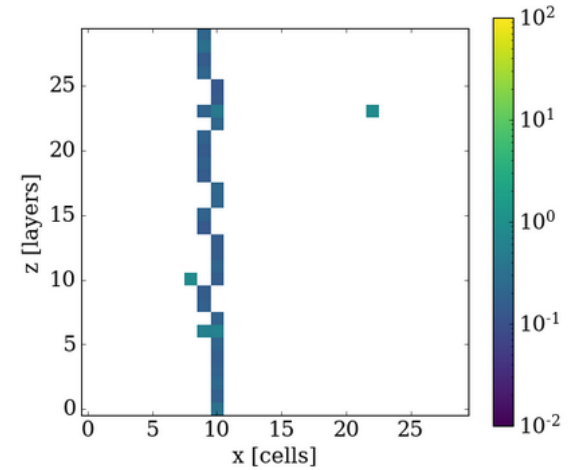
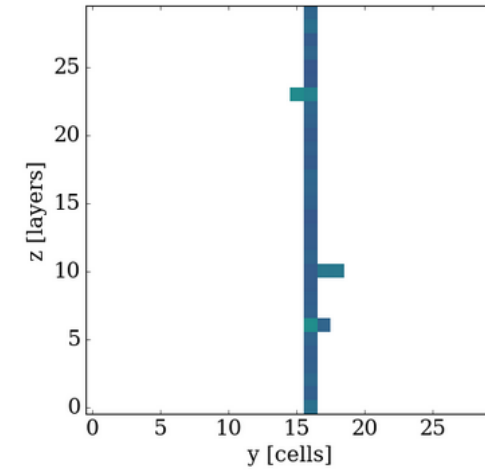
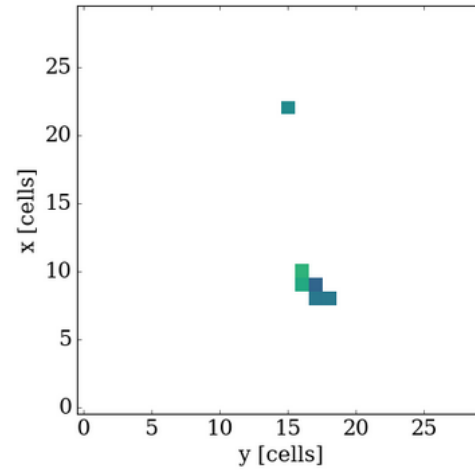
Combined dataset is ready with 3 single point energies (40, 50 and 60 GeV)

Pion showers in the ECAL + HCAL system (Training Data)

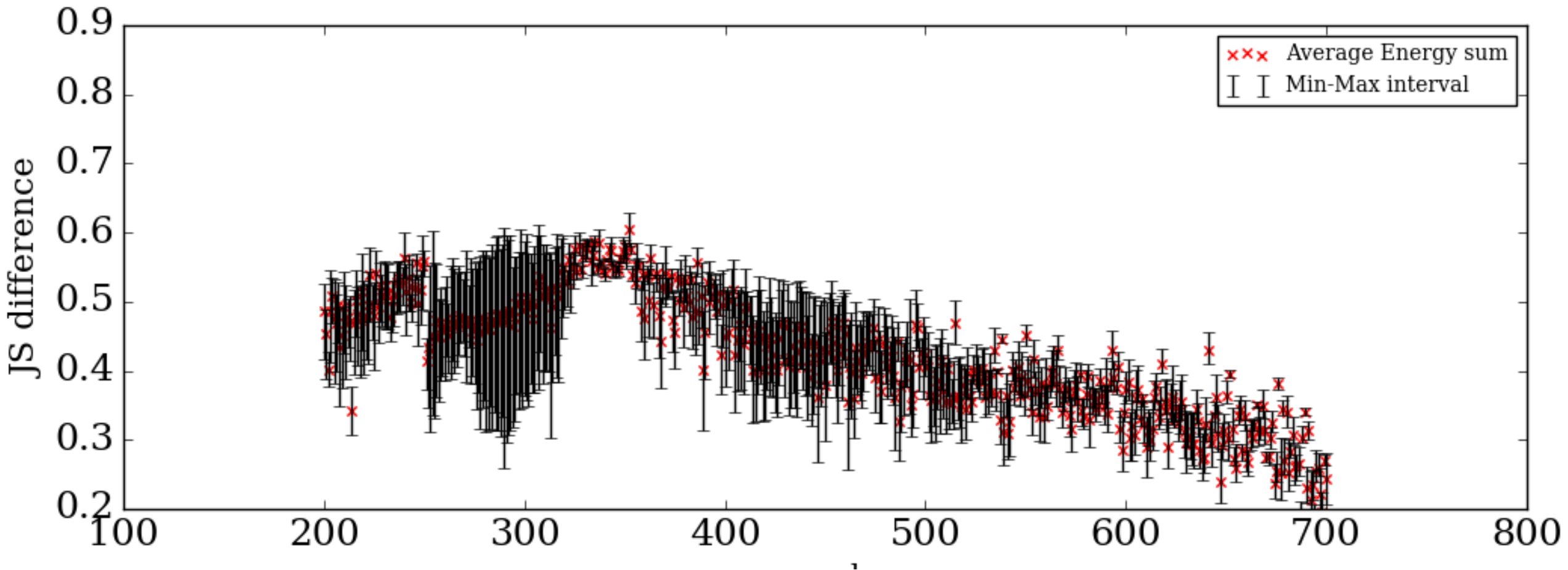


$\sim 2/3$

$\sim 1/3$

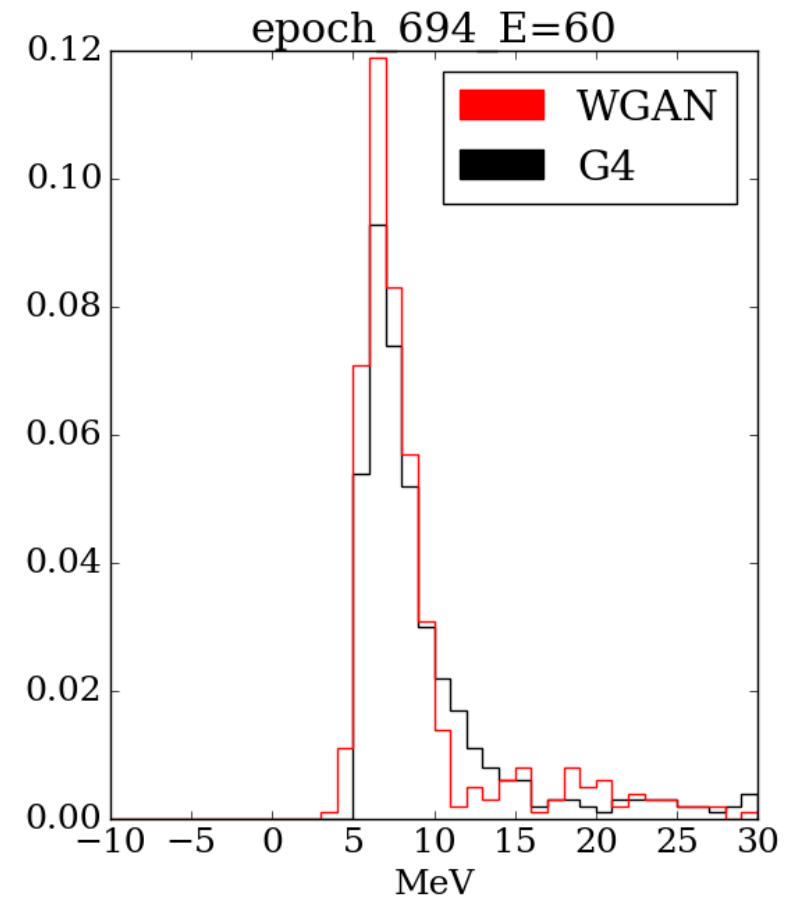
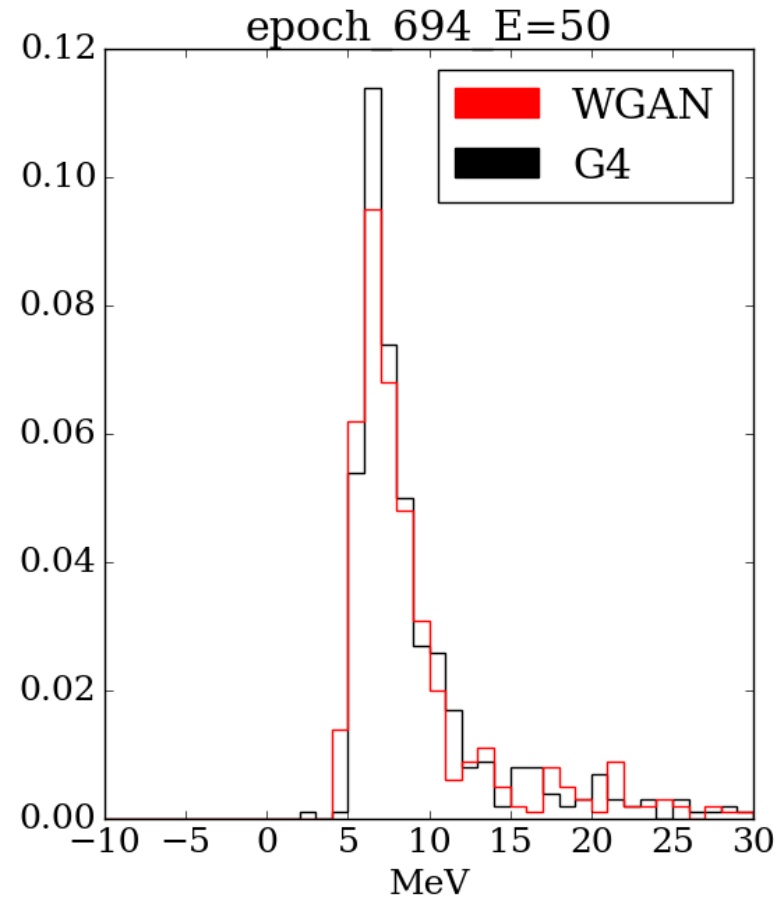
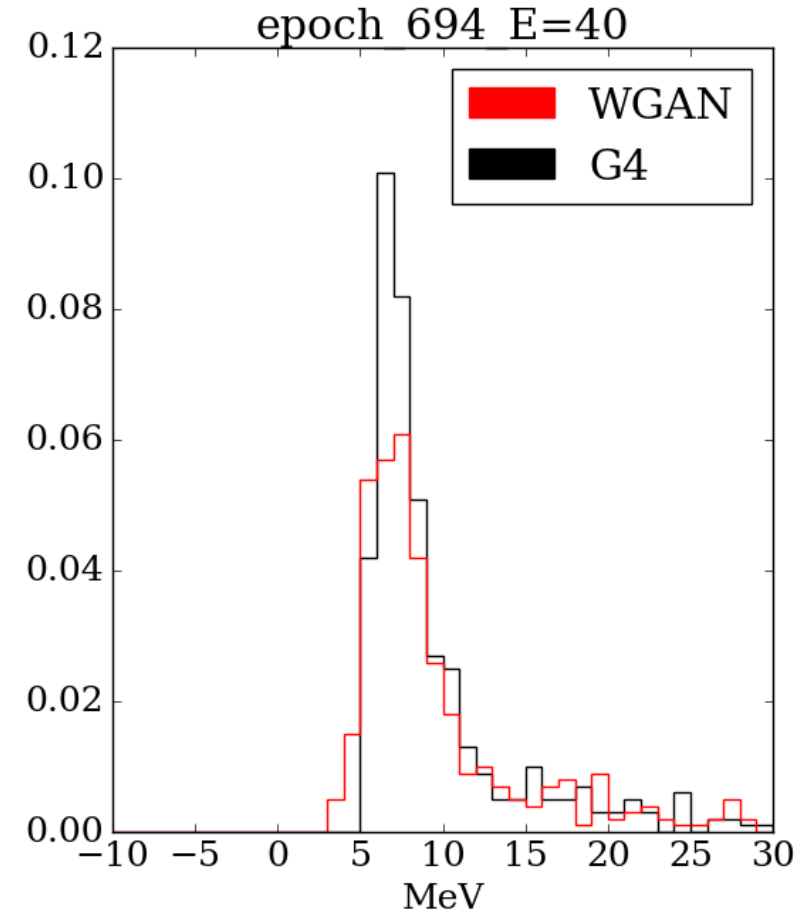


Pion (ECAL only) showers: Fidelity Scan based on E-sum [40, 50, 60 GeV]



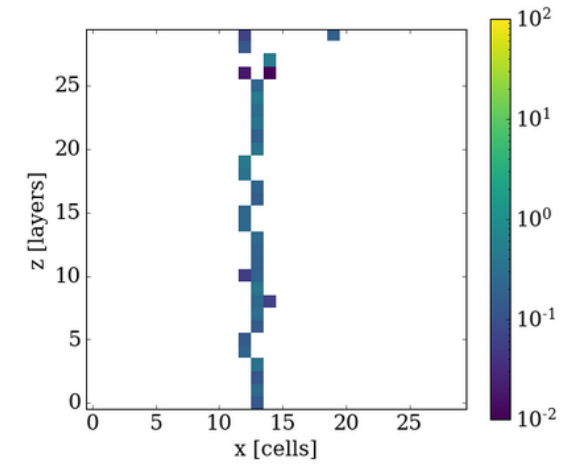
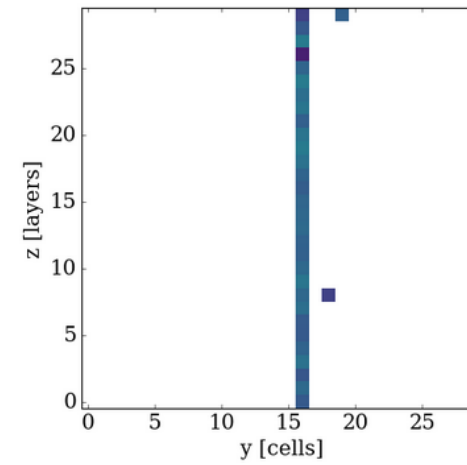
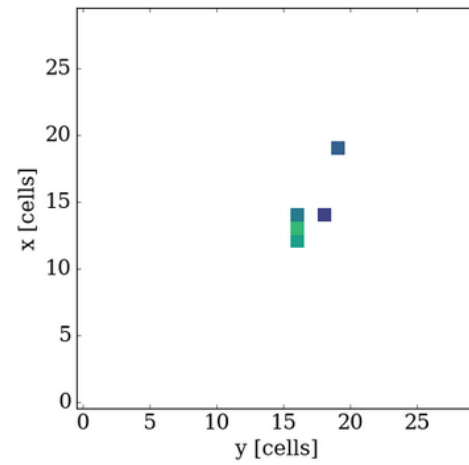
Pion (ECAL only) showers with WGAN (very preliminary)

Energy-sum :

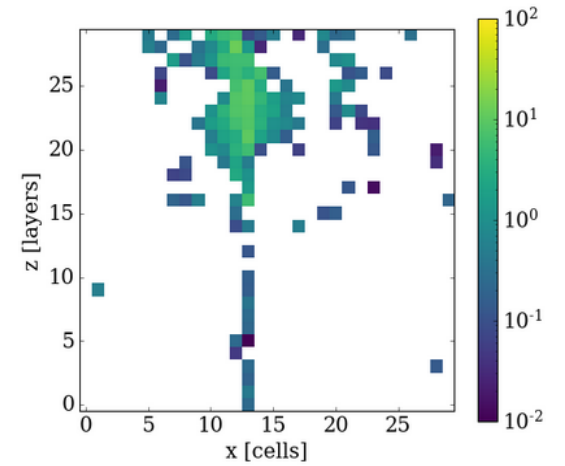
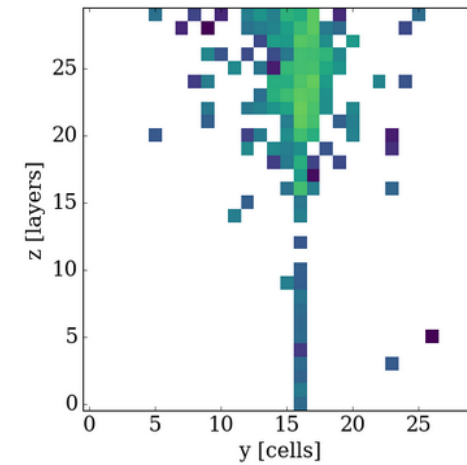
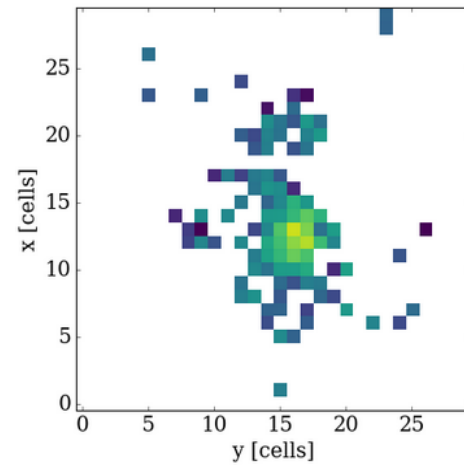


Generated examples

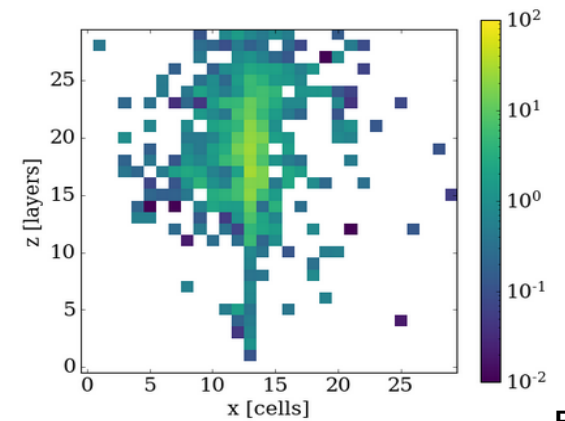
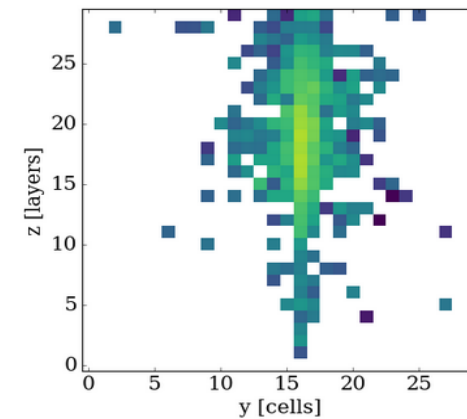
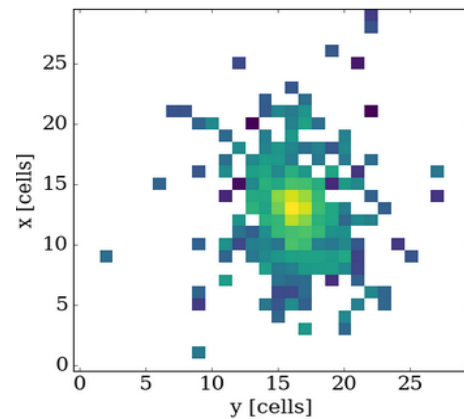
MIP like



Late shower



EM like



Thank you

Pion showers in the ECAL + HCAL system (Generated Data)

WGAN

