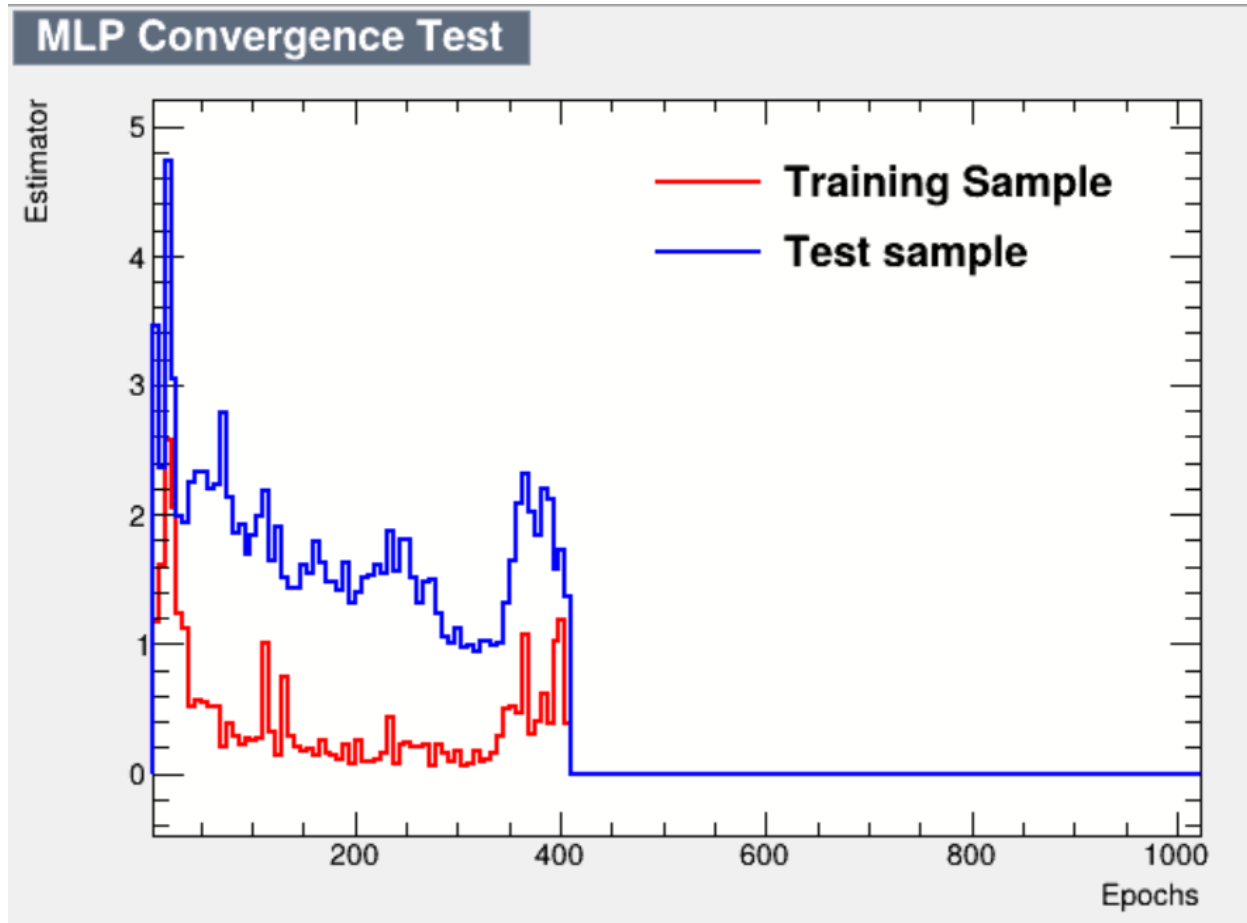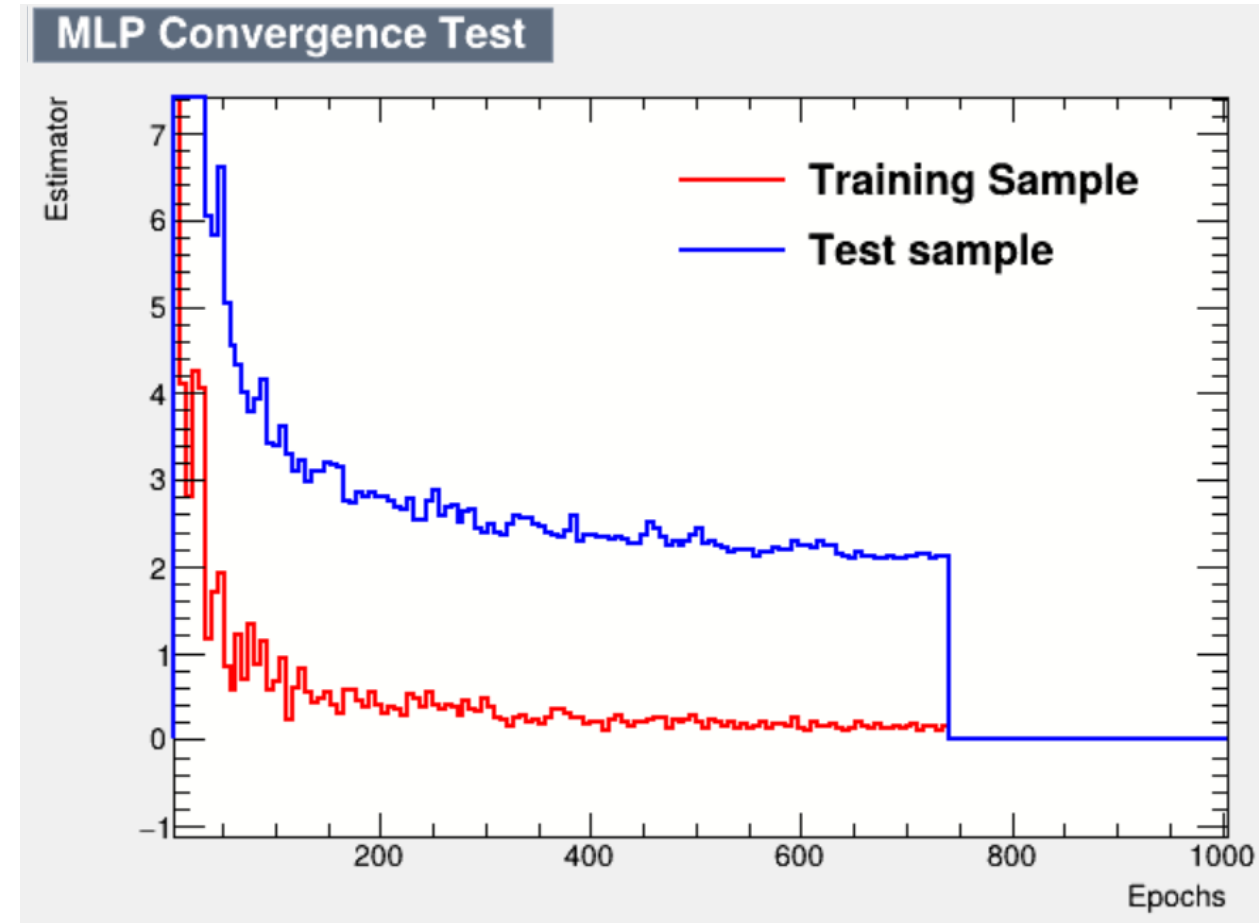# MLP Loss Study (Protons)

Before Optimization

LR = 0.02, Decay = 0.01
Activation = tanh, Algorithm = BFGS
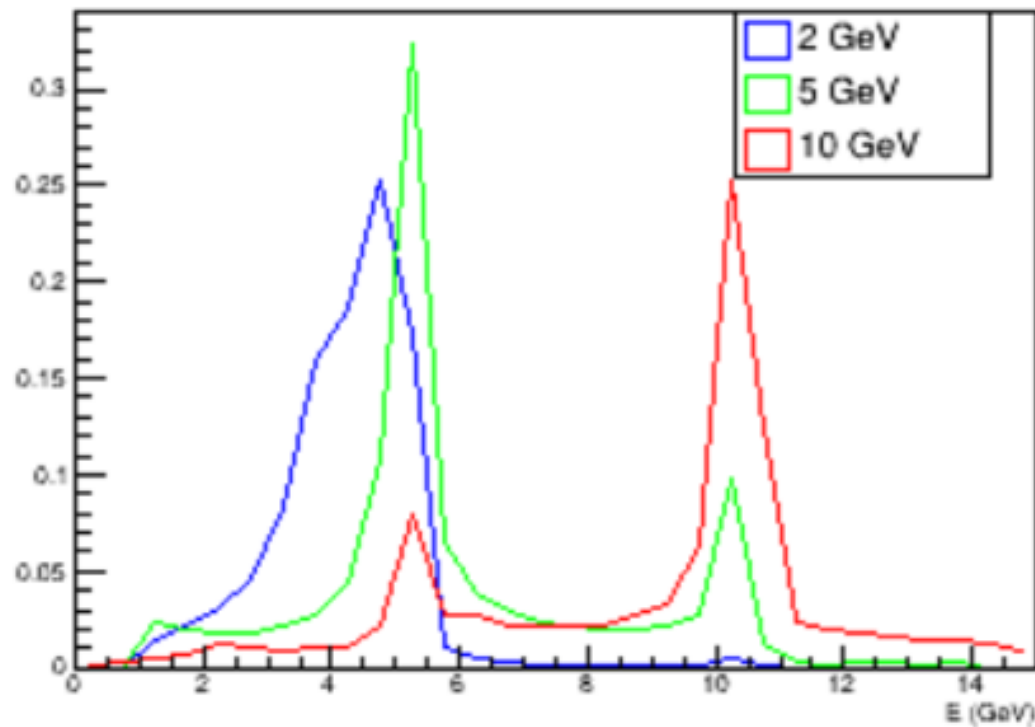
Initial Optimization

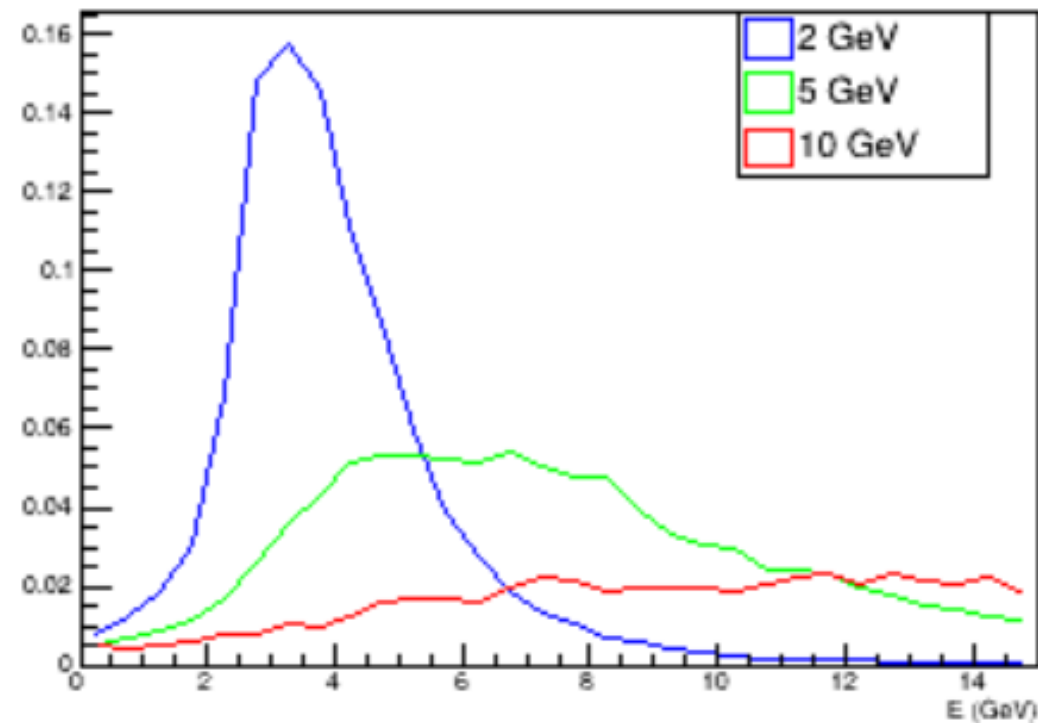LR = 0.001, Decay = 0.005
Activation = ReLU, Algorithm = BP

Before Optimization

Calibrated Cluster Energy (MLP)

Initial Optimization

Calibrated Cluster Energy (MLP)

These are just a start... with a bit more fine-tuning it should at least match the LD performance

Next: further optimize decay rate and hidden layer structure, KNN fine-tuning