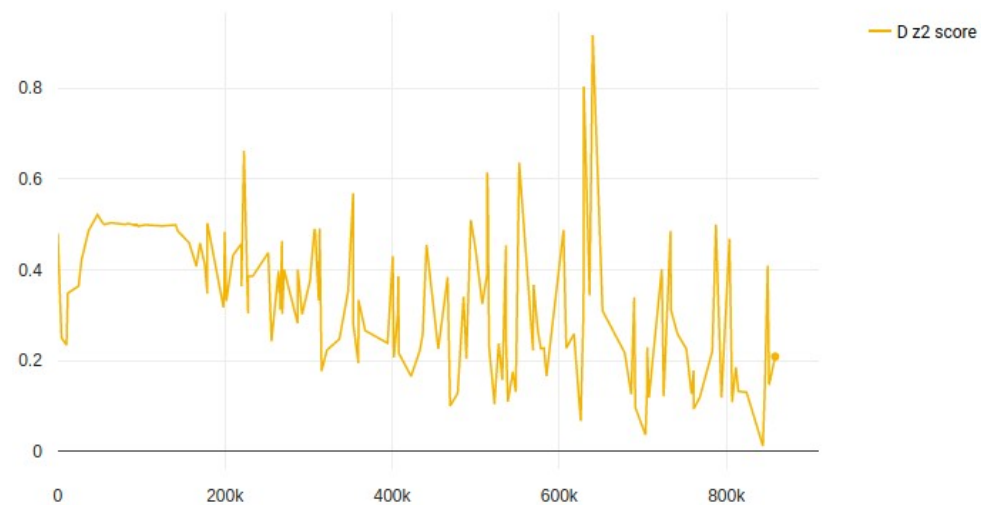
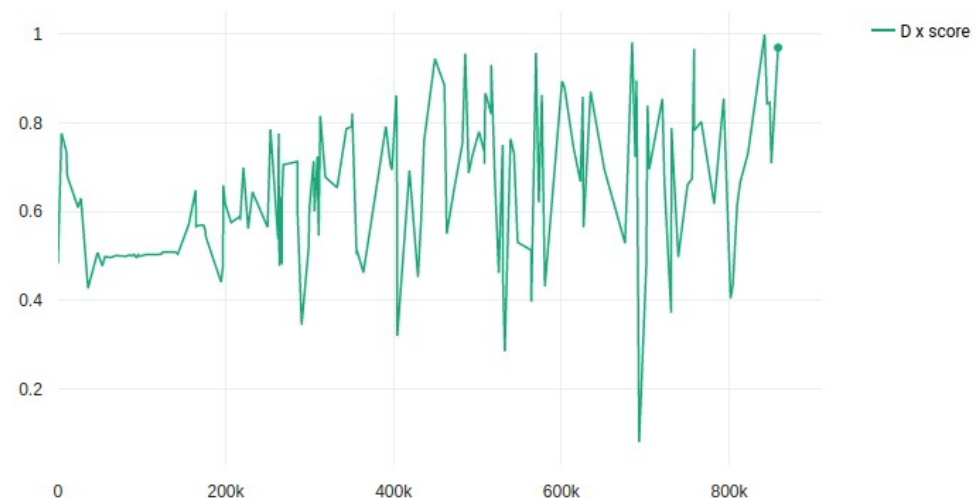


Update

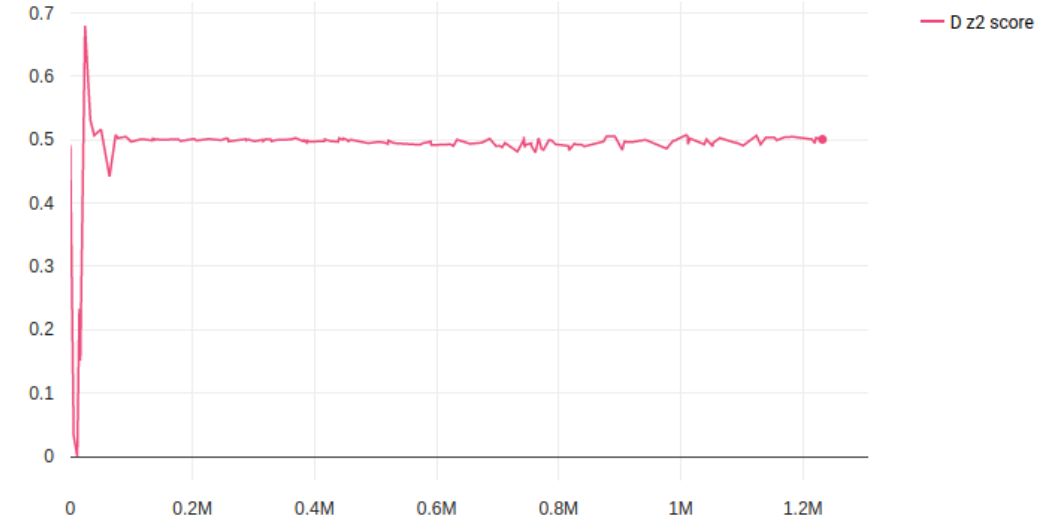
- Currently focusing on Constrained GAN
 - Trained both energy and angular constrainers
 - Working on 285,100 showers as first step
- Re-weighted loss contribution from constrainers
 - Loss converges initially, but diverges after 5-6 hrs



Update

- Since then have tried several trainings with different hyperparameters
 - Higher learning rate in generator than discriminator
 - Training generator even longer than discriminator (x5->x10)
 - Tan theta vs no tan theta on angular labels
- Still observing the same problem in the loss.....
- Other possible ideas:
 - Also do some compression on energy labels?
 - Reduce the discriminator learning rate once generator starts to struggle
- Other ideas?

Angular data



Angular and energy data

