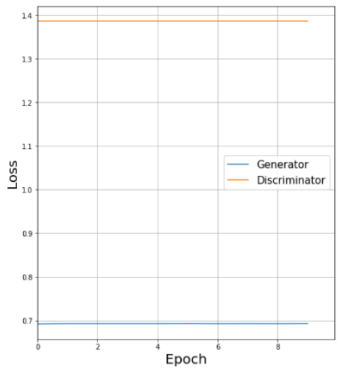
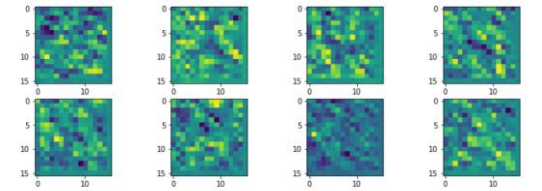
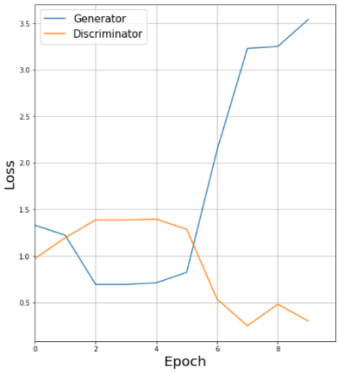
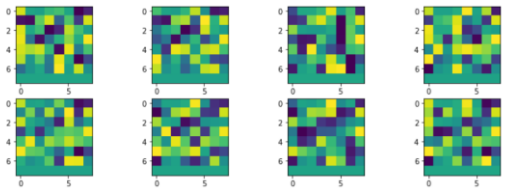
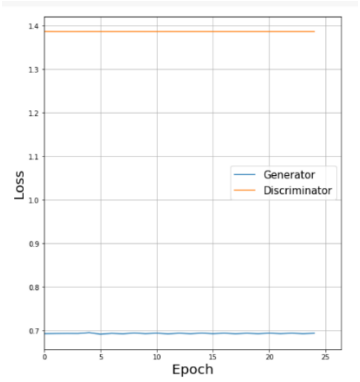
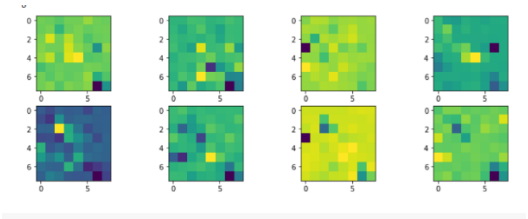
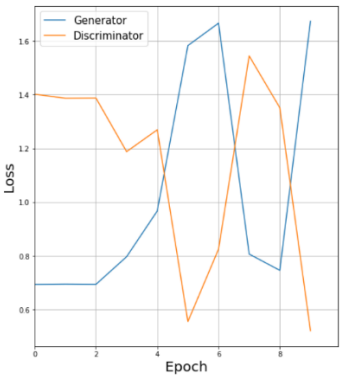
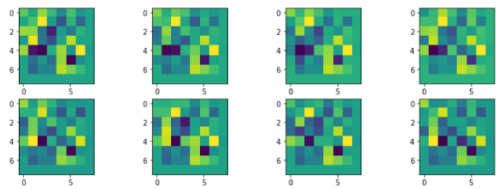
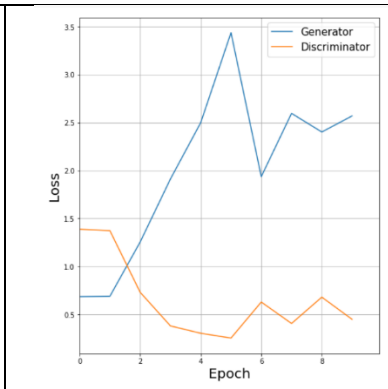
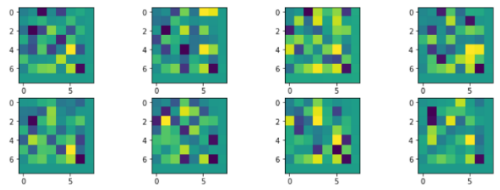
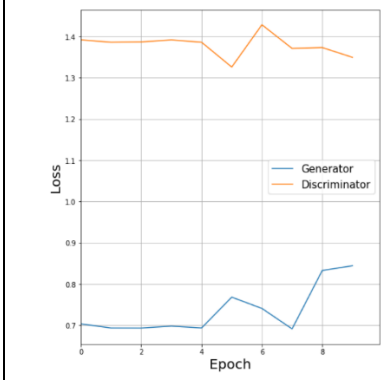
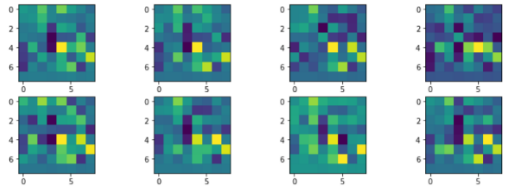
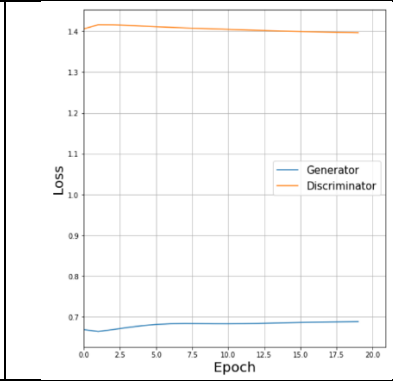
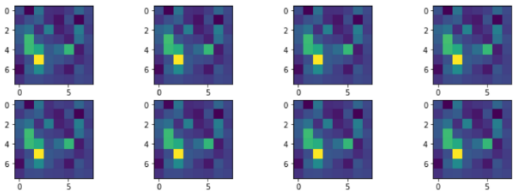
# Results for Fully Quantum GANS

| Configuration | Loss | Generated Images |
|---|---|---|
| -100 samples (jet mass)<br>-5 epochs<br>-Adam optimizer<br>(Generator lr=0.001)<br>(Discriminator lr=0.001)<br>-1 Generator step per Discriminator step<br>-pqc1<br>-Batch Normalization |  |  |
| -50 samples (electron images)<br>-5 epochs<br>-Adam optimizer<br>(Generator lr=0.001)<br>(Discriminator lr=0.001)<br>-1 Generator step per Discriminator step<br>-pqc1 |  |  |
| -100 samples (electron images)<br>-25 epochs<br>-RMS optimizer<br>(Generator lr=0.0001)<br>(Discriminator lr=0.0001)<br>-1 Generator step per Discriminator step<br>-pqc3 |  |  |
| -100 samples (electron images)<br>-10 epochs<br>-RMS optimizer<br>(Generator lr=0.001)<br>(Discriminator lr=0.0001)<br>-1 Generator step per Discriminator step<br>-pqc3 |  |  |

| | | |
|---|---|---|
| -100 samples (electron images)<br>-10 epochs<br>-RMS optimizer<br>(Generator lr=0.001)<br>(Discriminator lr=0.0001)<br>-5 Discriminator steps per Generator step<br>-pqc3 |  |  |
| -100 samples (electron images)<br>-10 epochs<br>-RMS optimizer<br>(Generator lr=0.001)<br>(Discriminator lr=0.0001)<br>-5 Generator steps per Discriminator step<br>-pqc3 |  |  |
| -1000 samples (electron images)<br>-20 epochs<br>-Adam optimizer<br>(Generator lr=0.01)<br>(Discriminator lr=0.001)<br>-5 Generator steps per Discriminator step<br>-pqc3 |  |  |