**One-Page Progress Report**

**Author: 김성원**

**Date: 2023-10-23**

**Project: Particle Simulation with DC-GAN**

**Report number: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Summary of your progress:**

Used DCGAN to generate particle simulate image.

**Discussion:**

* As in [the reference](https://arxiv.org/abs/1511.06434):
  + Generator: batchnorm and relu
  + Discriminator: Conv, LeakyReLU, and batchnorm
* Backbone working.
* More training data needed for both p=0,1
  + P=1 data has been created better than VAE.
  + P=0 data seems more traning data needed

**Appendix:**