Week 1 Presentation

PHY 496

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Preliminary Setup

▶ Dr. Kuchera created my account on the Linux Cluster and the computer Karbo worked on.

▶ Linked Python 3 to Jupyter Notebooks on my cluster account

▶ Setup Tensorflow and Tensorflow-Probability on the cluster

▶ Copied some of Karbo's data creation programs off of his computer

▶ Completed contract and submitted independent study form to Registrar

GitHub account

▶ Created GitHub account brkronheim

▶ Completed a tutorial and learned the following:

  ▶ Online repository creation, commits, branching, pull requests, and merging

▶ Learned some important git commands:

  ▶ Init, clone, pull, add, rm, commit –m, push

▶ Current repository is on GitHub, the cluster, and my local computer

▶ Repository name is BNNs-for-SUSY

Goals for next week

- Learn more Linux commands
- Move PROSPINO and SUSY-HIT onto the Linux cluster
- Learn how Karbo's data creation program works, possibly modify it
- Create training data
  - Initial data will be generated from a random distribution of pMSSM parameters
- Start creation of neural network if data generation goes smoothly