Progress Update

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Generate large numbers of images

- Generate 200 events in a single file, set the random seed number equal to the file number.

```
e-_200_file_1.root
e-_200_file_10.root
e-_200_file_11.root
e-_200_file_12.root
e-_200_file_13.root
e-_200_file_14.root
```

- After reading images

```
image_e-_200_file_1.root
image_e-_200_file_10.root
image_e-_200_file_11.root
image_e-_200_file_12.root
image_e-_200_file_13.root
```

Generate large numbers of images

- Now I generate 30 electron files and 20 muon files (8463 events).

➢ It takes 2h in average to read a single file into images, but a small portion of the files **always exceed the walltime**. They stuck at a certain point.

➢I replace them with files using other seed numbers but I don't know whether it has an influence.

modification of input function

- 1. Put all the files to read in a *filename_list* and shuffle.

- 2. Use TChain to put all the events together so that I can loop over them.

- 3. The function *read_file(filename_list)* read one event each time and return its features and label.