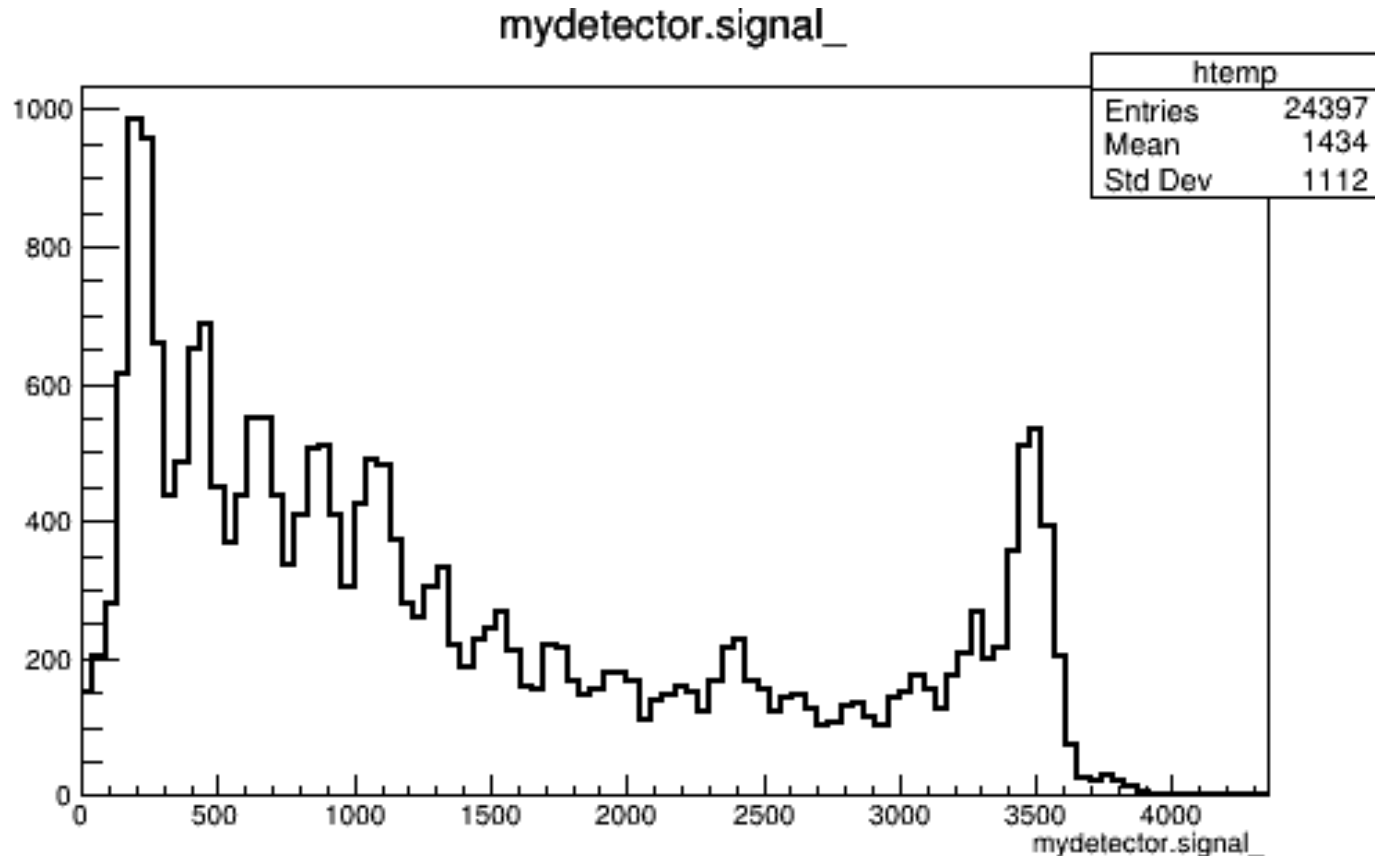# Weekly Report

Maoqiang Jing

2018.07.06

Double Peak Pull Request

☐ With the help of Kai and Ryuta, I have made a separate function successfully and test has been done(seems OK). The pipeline in GitLab has also been passed. (Waiting for the feedback from Simon)
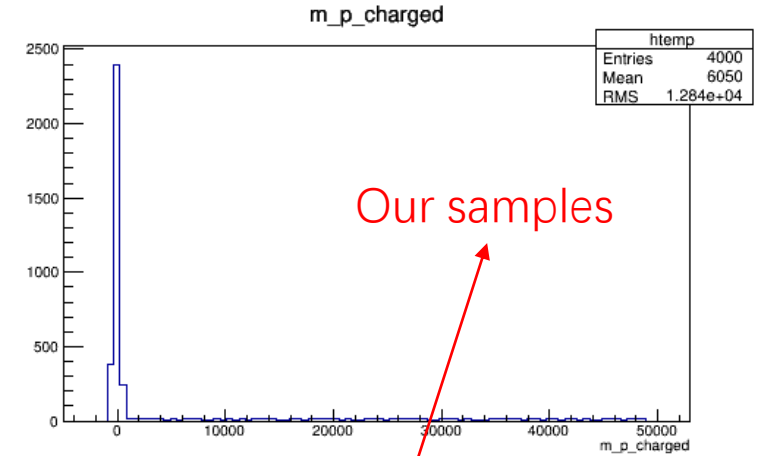


```
[DepositionGeant4]
physics_list = FTFP_BERT_EMZ
energy_source_type = radioactive_source
sample = Fe-55
source_position = 0um 0um -10um
source_type = "point"
max_step_length = 10.0um
output_plots = true
```

✓ Source shape defined by Thomas has also been used

Higgs → Invisible Analysis

- ☐ Running on 3 Tesla samples
  - There are some differences between Moxin's 3.5 Tesla samples and the samples new 3 Tesla samples
  - Asked Ryuta(MC info) and Gang(Generator) to find out the differences :
    - ➢ Differences between ArborPFO and MCParticle
    - ➢ N_gamma cut(energy requirement on photon should be applied)
  - Some distributions are still wrong because of the differences lying on two samples
  - Because of the differences, should we stick on the cut selection criteria of Moxin's?

Our samples

Selection program has been modified according to the differences

Moxin's samples