



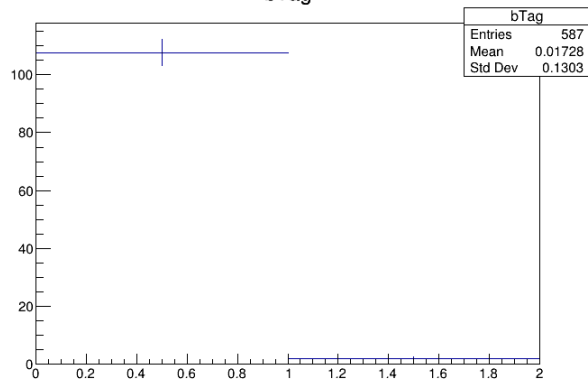
工作汇报

2022.8.8 潘超钰

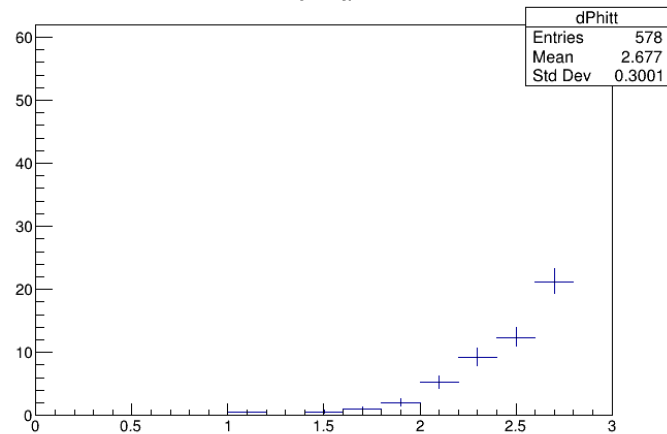
工作总结：绘制一些 cut 后图像并简单分析，绘制带有 signal 和 data 的图像
了解了许多程序细节的相关内容

Preselection

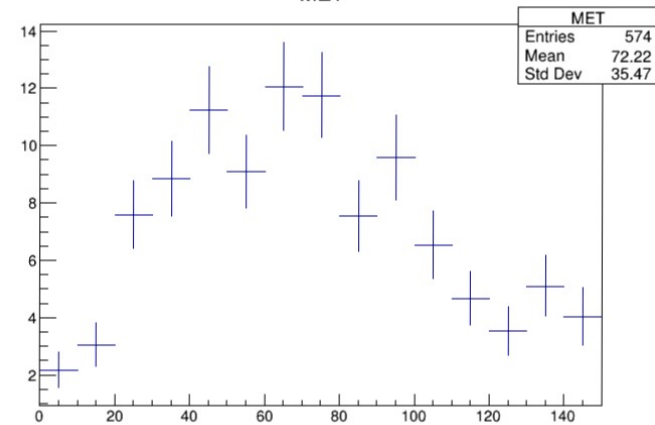
bTag



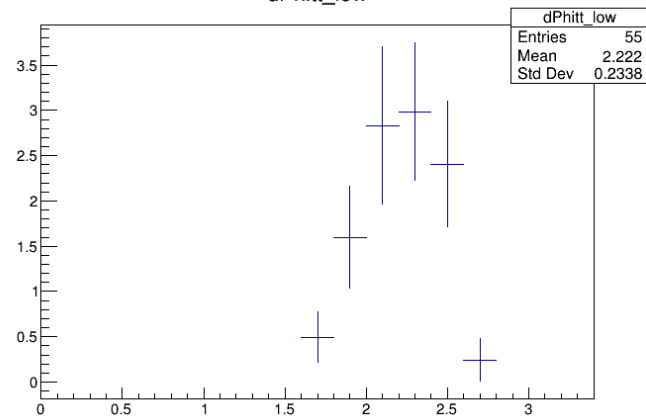
dPhitt



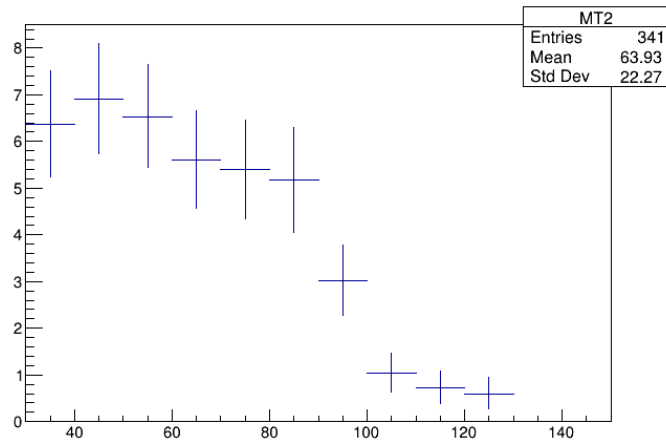
MET



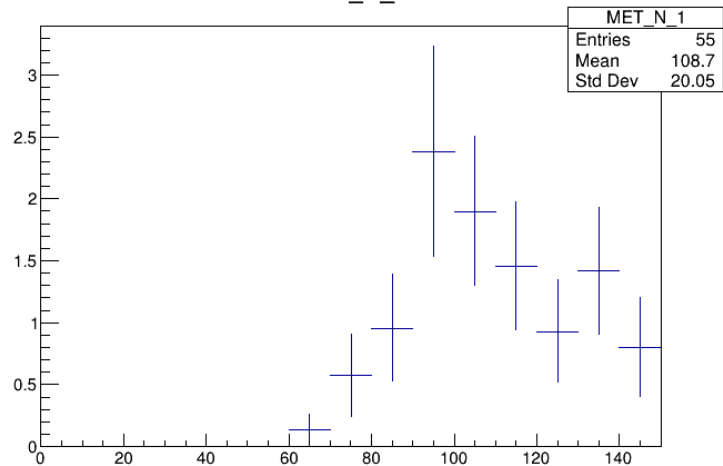
dPhitt_low



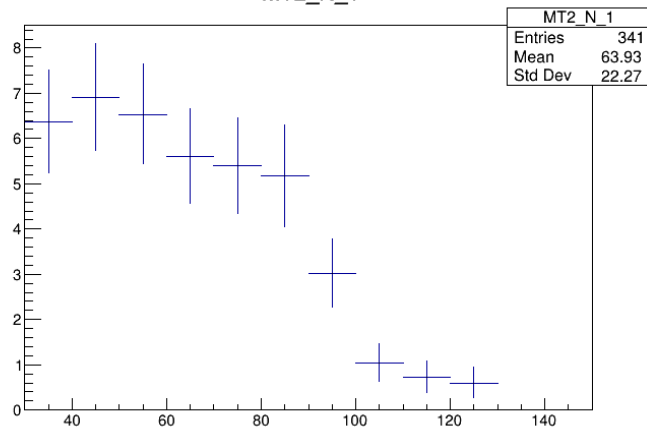
MT2



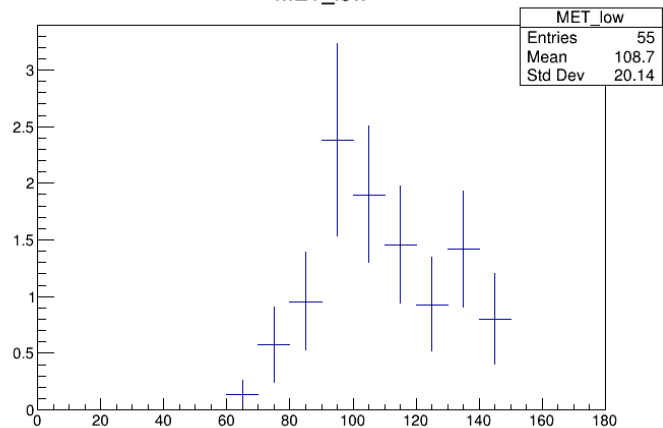
MET_N_1



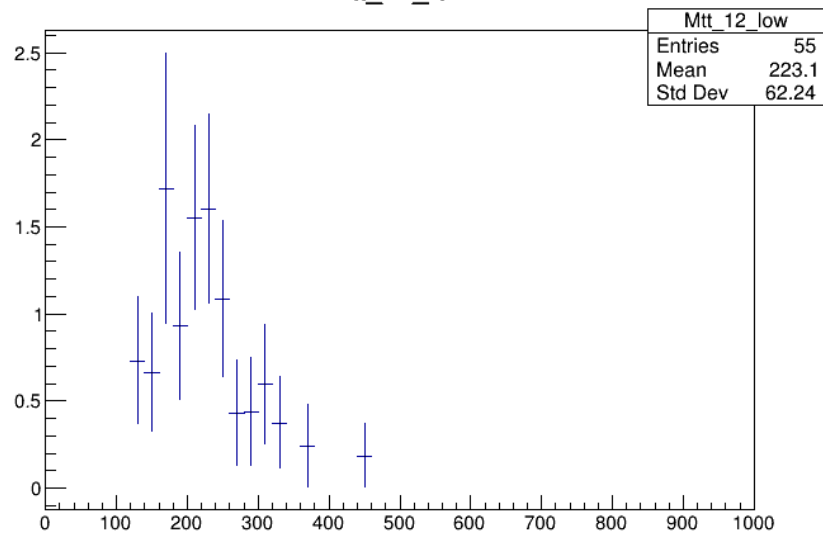
MT2_N_1



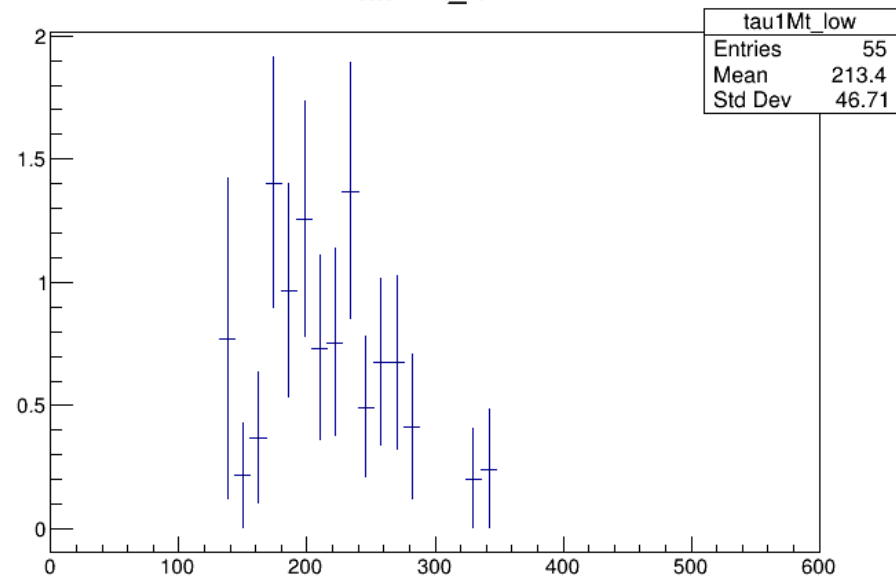
MET_low



Mtt_12_low



tau1Mt_low



绘制带有 signal 和 data 的图像

合并 root 文件

```
build CMakeLists.txt config DiTauMET.cxx run subJOB.sh  
-bash-4.2$ cd run  
-bash-4.2$ hadd Z.root Z.*.root
```

将合并后的 root 文件复制到一个文件夹供后续调用

```
-bash-4.2$ ls merge/  
C1C1_Stau_1000p0_0p0.root  C1C1_Stau_700p0_400p0.root  Higgs.root      Top.root  Z.root  
C1C1_Stau_300p0_150p0.root  c1.pdf                      MultiBoson.root  W.root
```

在 Print.c 中添加路径

```
void draw(const std::string name) {  
    std::string folder = "/publicfs/atlas/atlasnew/SUSY/users/chaoyupan/merge";
```

Source run.sh

```
Processing draw.C("MT2_N_1")...  
In file included from input_line_11:1:  
/publicfs/atlas/atlasnew/SUSY/users/chaoyupan/test1/compare/draw.C:1:10: fatal error: In file included from input_line_11  
'Plotter/AtlasUtils.C':1:  
  file/publicfs/atlas/atlasnew/SUSY/users/chaoyupan/test1/compare/draw.C not: found1  
:10: fatal error: 'Plotter/AtlasUtils.C' file not found  
#include "Plotter/AtlasUtils.C"#include "Plotter/AtlasUtils.C"
```

本周任务：

1. 了解每一个 cut 的作用。
2. 画出带有完整的 cut 的图像，并作出 N-1 图，进行对比，从而明显感受到 cut 的作用效果。
3. 继续学一些 root 的相关知识。