Test reconstruction of ttbar
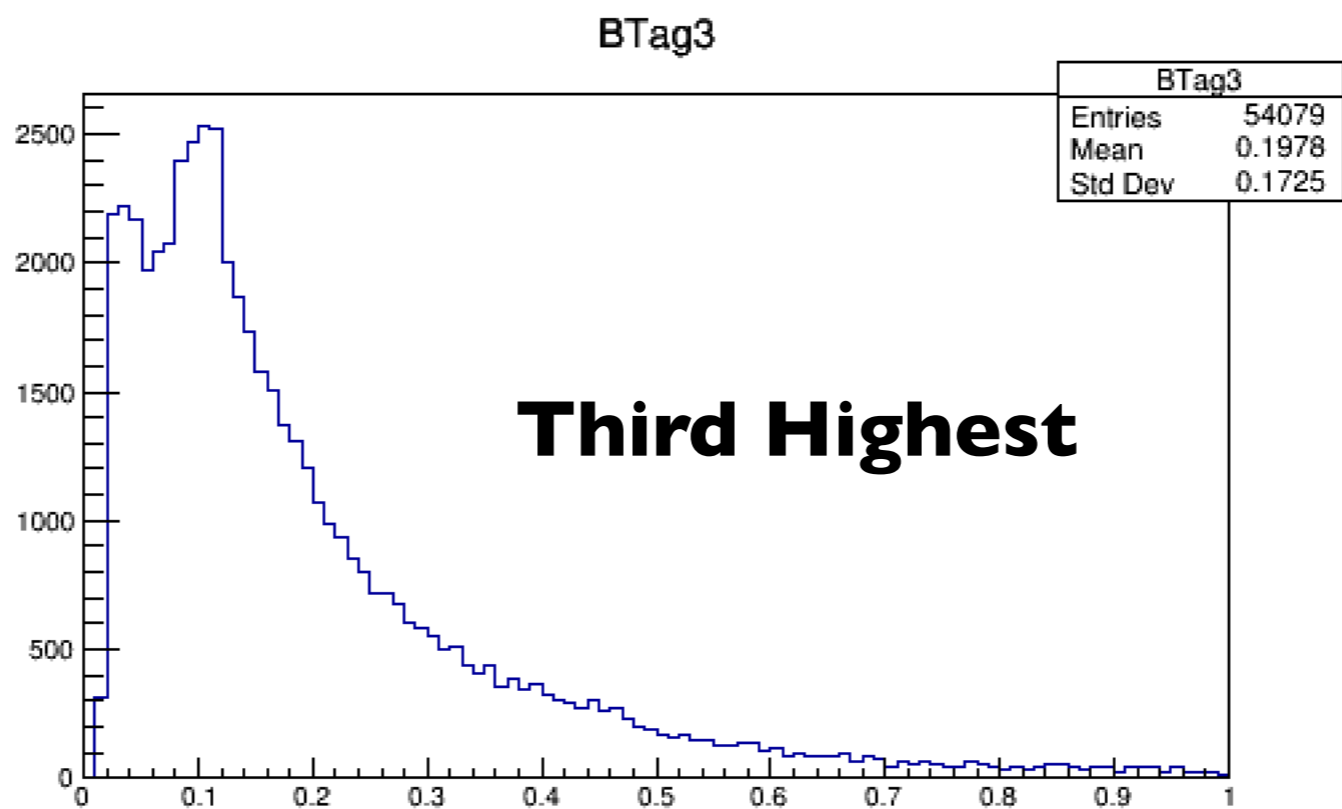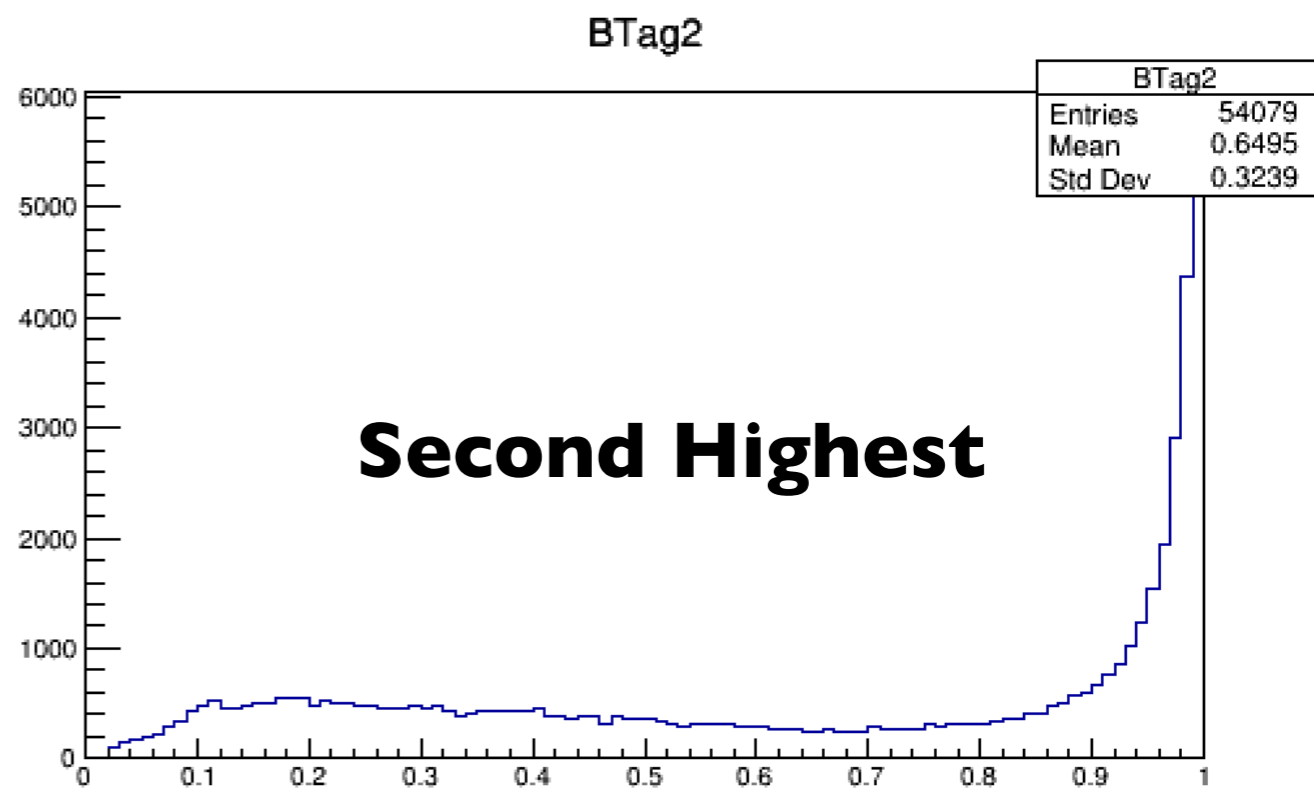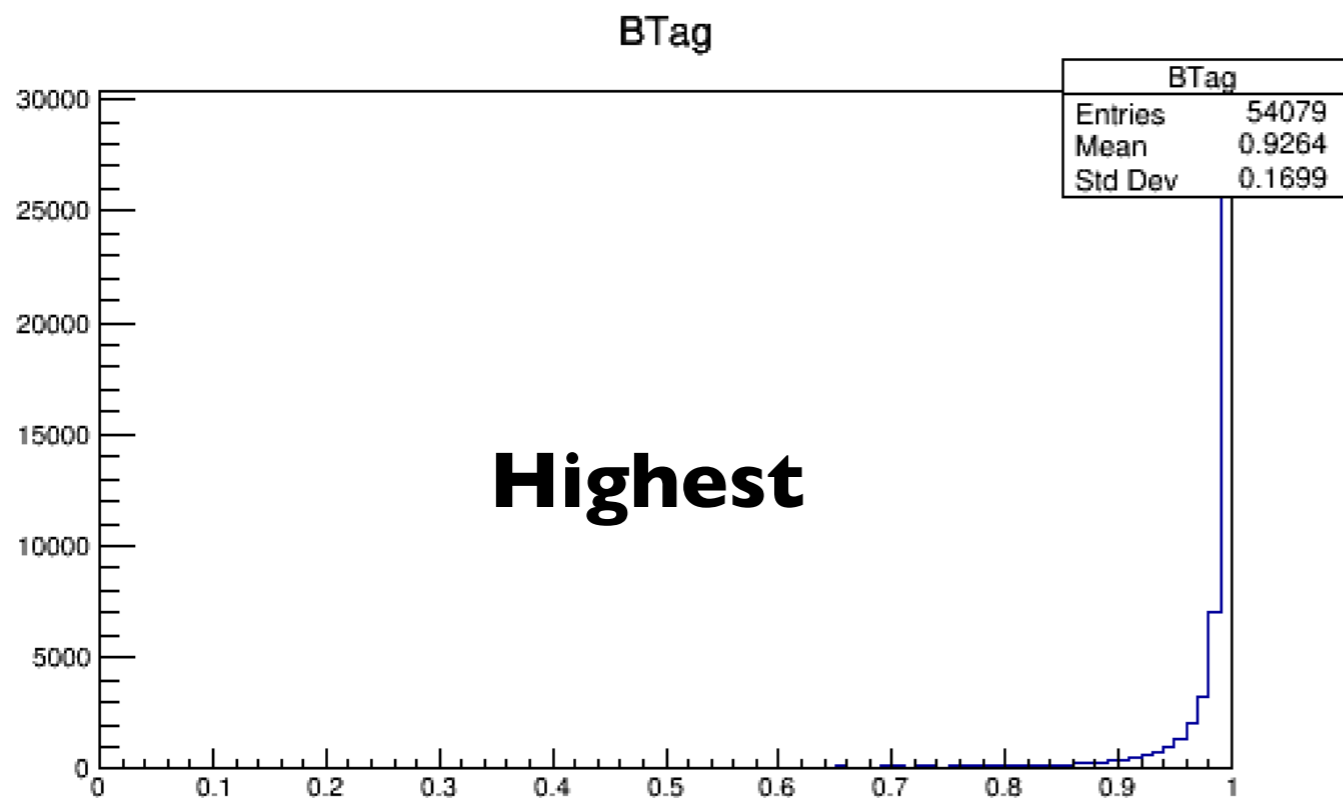
Ryo Yonamine
Tohoku University

Objectives

❖ **Check if the analysis code used before run without any problem.**

❖ **Check if plots look reasonable.**
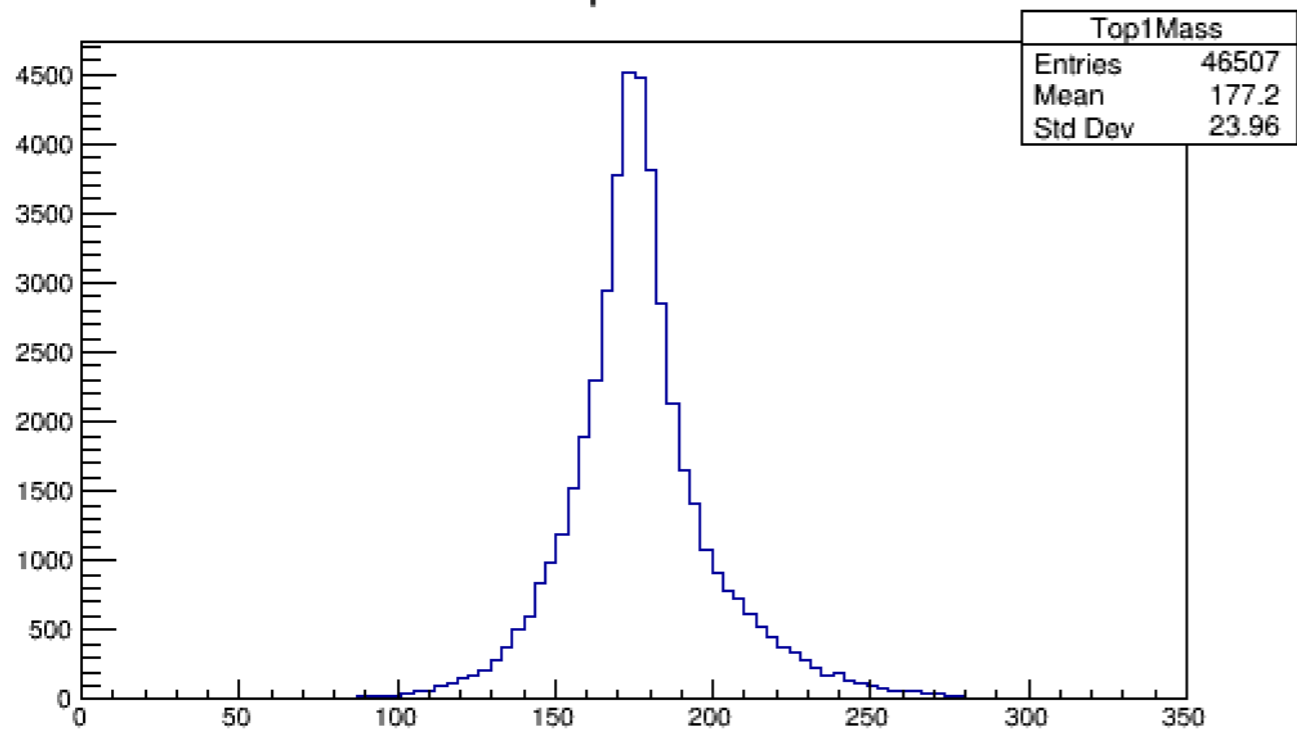
❖ **Performance is not concern at this moment.**

Setup

❖ **Use iLCSoft v01-19-06**

❖ **Use Sohail's code**
  ‣ No optimization performed.

❖ **ttbar sample produced on 14th Apr. (test production)**
  ‣ 500 GeV
  ‣ l5 detector model
  ‣ with beam background
  ‣ ~50k event analyzed (in total ~100k)

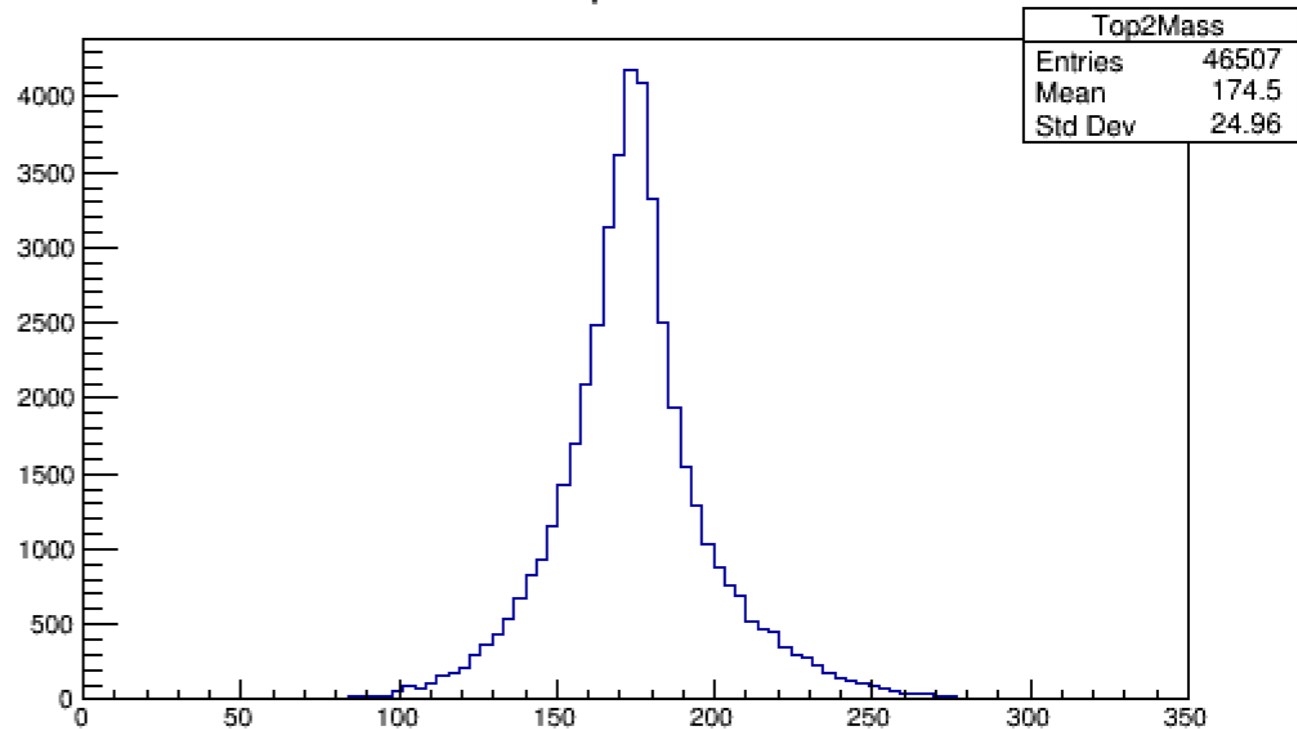❖ **Use existing weight files for the flavour tagging**
  ‣ 6q500_v01_p01

Btag

BTag

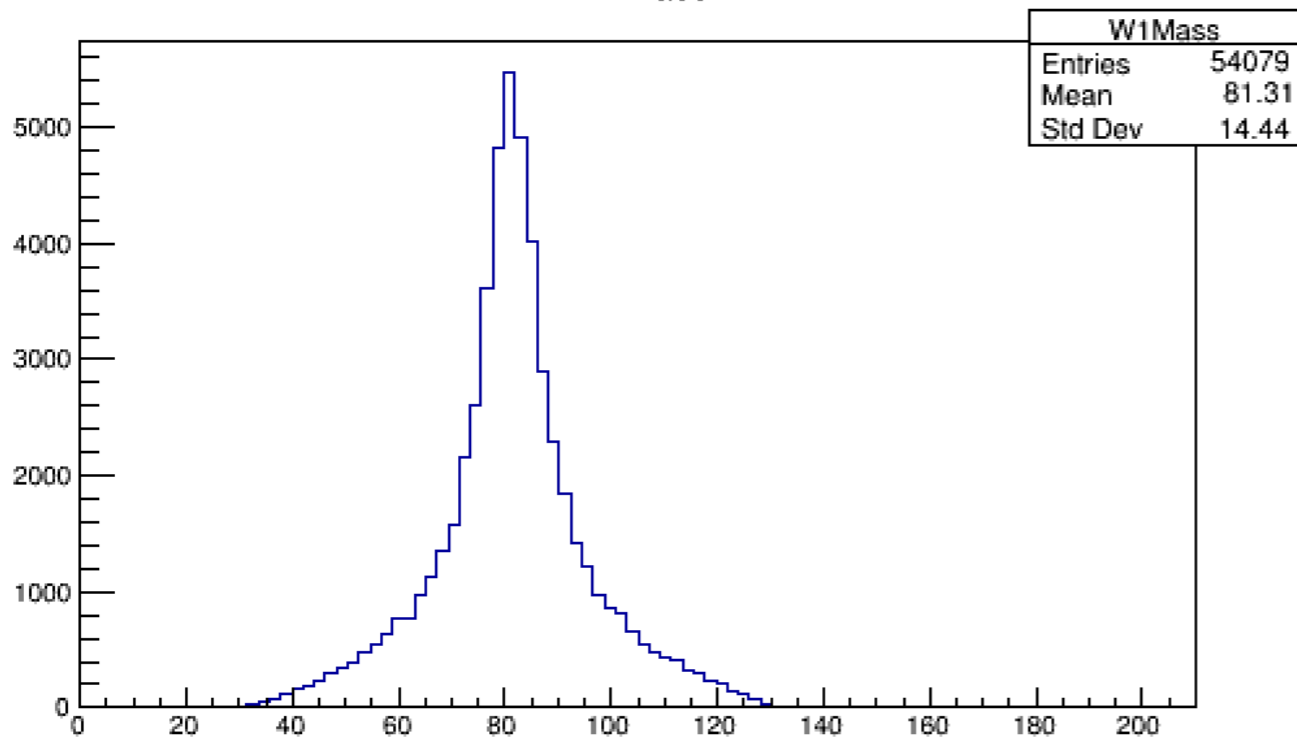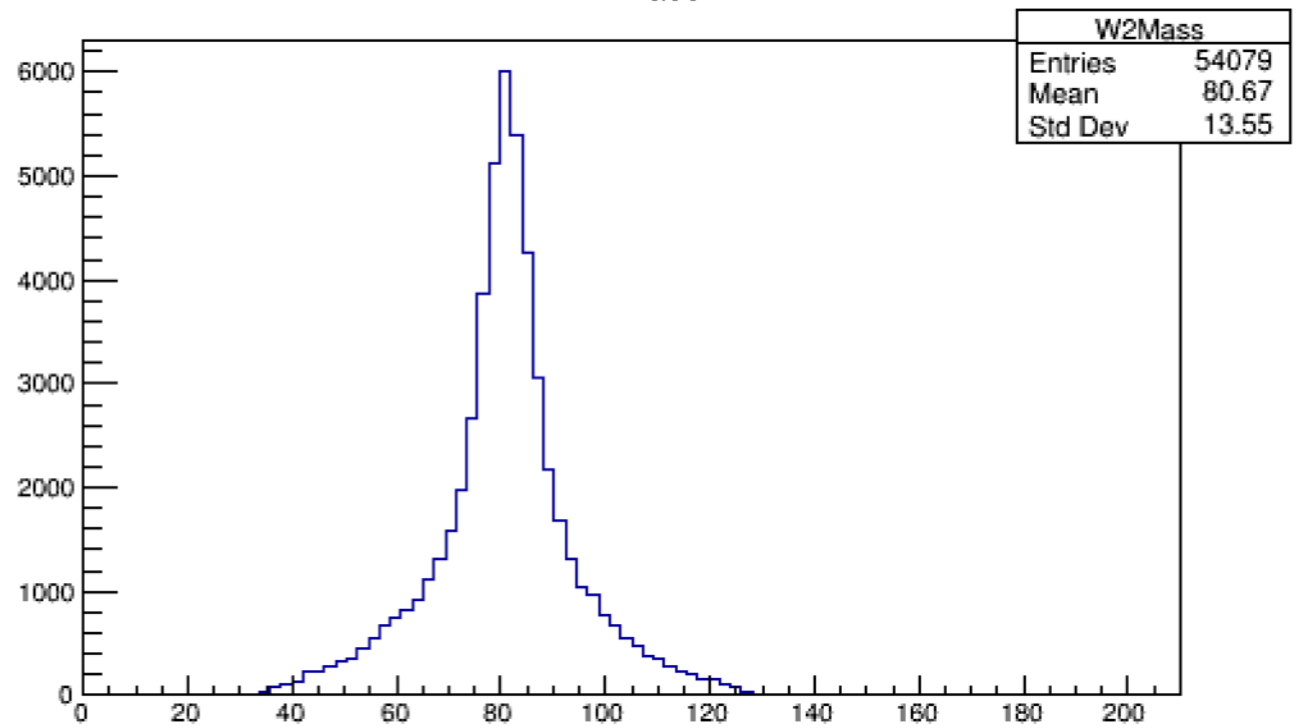| BTag	
Entries	54079
Mean	0.9264
Std Dev	0.1699

Highest

BTag2

BTag2	
Entries	54079
Mean	0.6495
Std Dev	0.3239

Second Highest

BTag3

BTag3	
Entries	54079
Mean	0.1978
Std Dev	0.1725

Third Highest

Masses

Plan

❖ **Sohail will start his analysis.**

❖ **Update weight data files once new sample is available.**
  ‣ 6b, 6c, 6u, 6d, 6s, without beam bkg. , 500 GeV