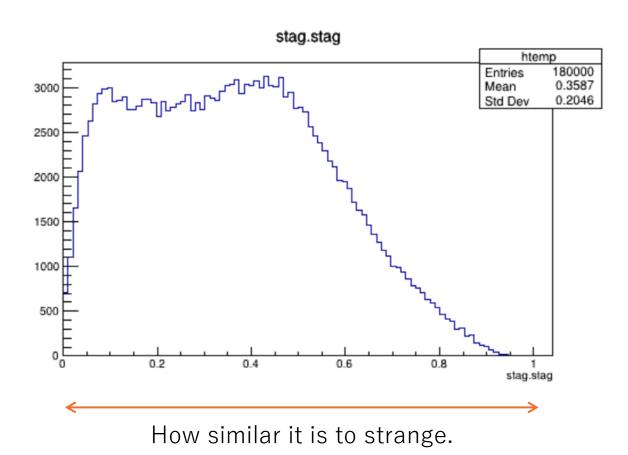
Higgs to ss study

First year graduate student at Iwate University Ryuki Sugawara

Flavor tag performance (H→ss)

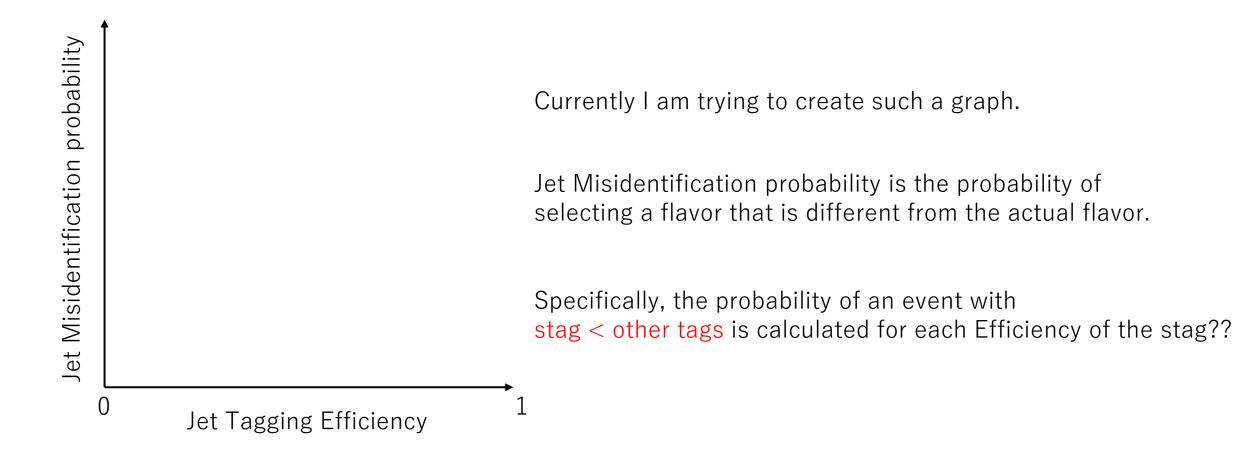
I used Tanabe-san's processor to analyze the flavor tags.

The graph below shows the efficiency of the tagging of the strange quark, using only events in which the Higgs boson decays to a strange quark.



The efficiency is a bit poor, so it takes some ingenuity to select only events that decayed into strange quarks.

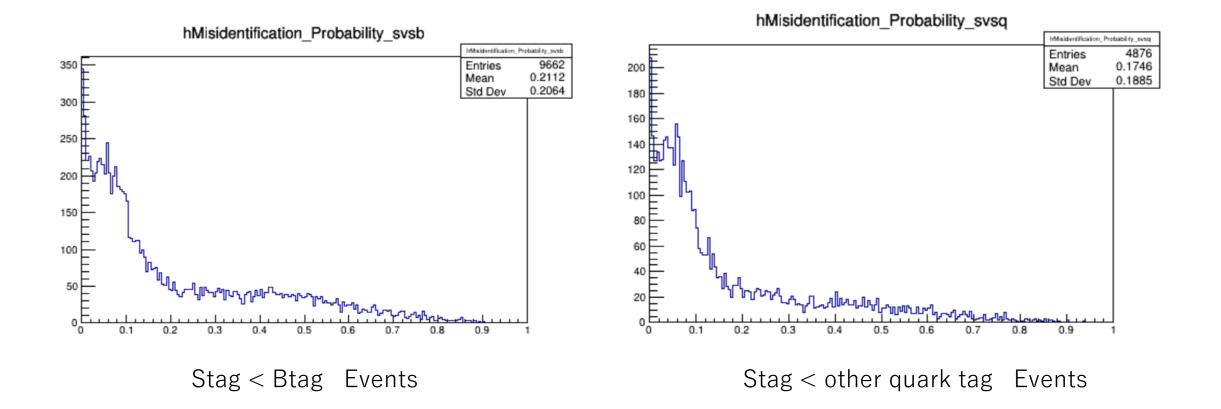
Graph type to be created



stag < btag , stag < qtag events</pre>

This graph collects events where the Efficiency of the Strange Tag is below the Efficiency of the other flavors.

I used an event in which the Higgs boson decays into a Strange quark.



next

- Create a graph of misidentification probability
- · Optimization of cuts for lepton, hadron, and neutrino processes