

$$e^+e^- \rightarrow \tau^+\tau^-$$

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S O K E N D A I

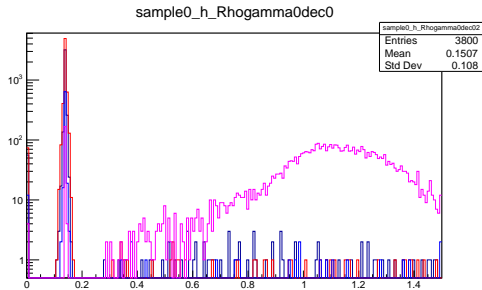
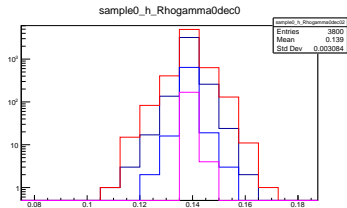


# Simulation setup

Rho mass :  $m_\gamma + m_{\text{charged pion}}$

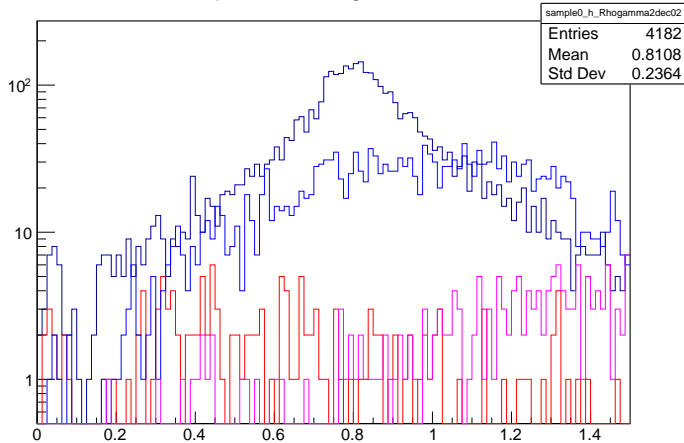
- Black: Rho decay
- Red : Single pion decay
- Blue : A1\_1p decay
- Magenta : A1\_3p decay

# # $\gamma = 0$



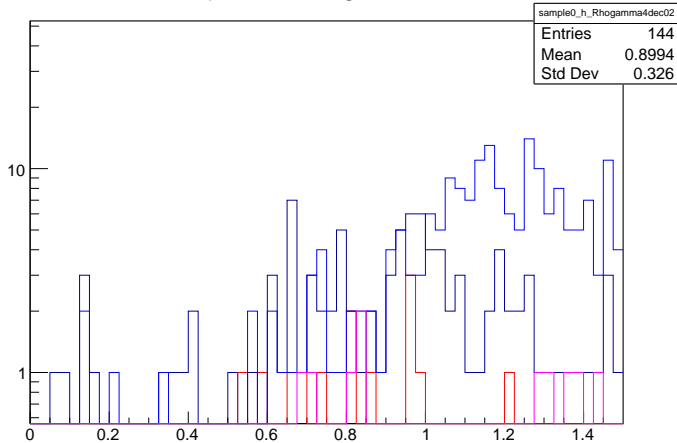
# $\gamma = 2$

sample0\_h\_Rhogamma2dec0

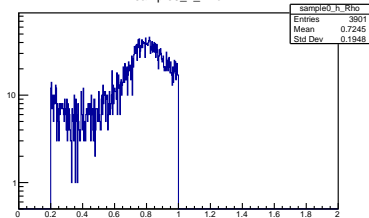


# $\gamma = 4$

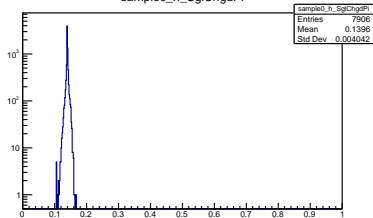
sample0\_h\_Rhogamma4dec0



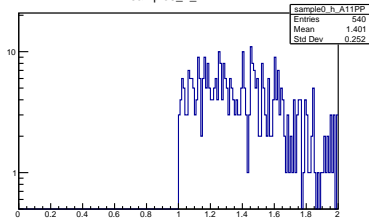
sample0\_h\_Rho



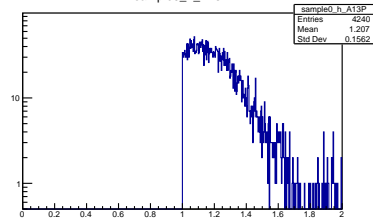
sample0\_h\_SglChgdPi



sample0\_h\_A11P



sample0\_h\_A13P



# Summary and Plan

I tried to separate signal from background.

This time, I determined cut region just with my feeling.

Now, I'm learning about MVA method.

Next, I'll try to use TMVA to determine cut value .