

# TtH Full Simulation Study Report Ryo Yonamine ( 2011. 11. 4 )

## Status

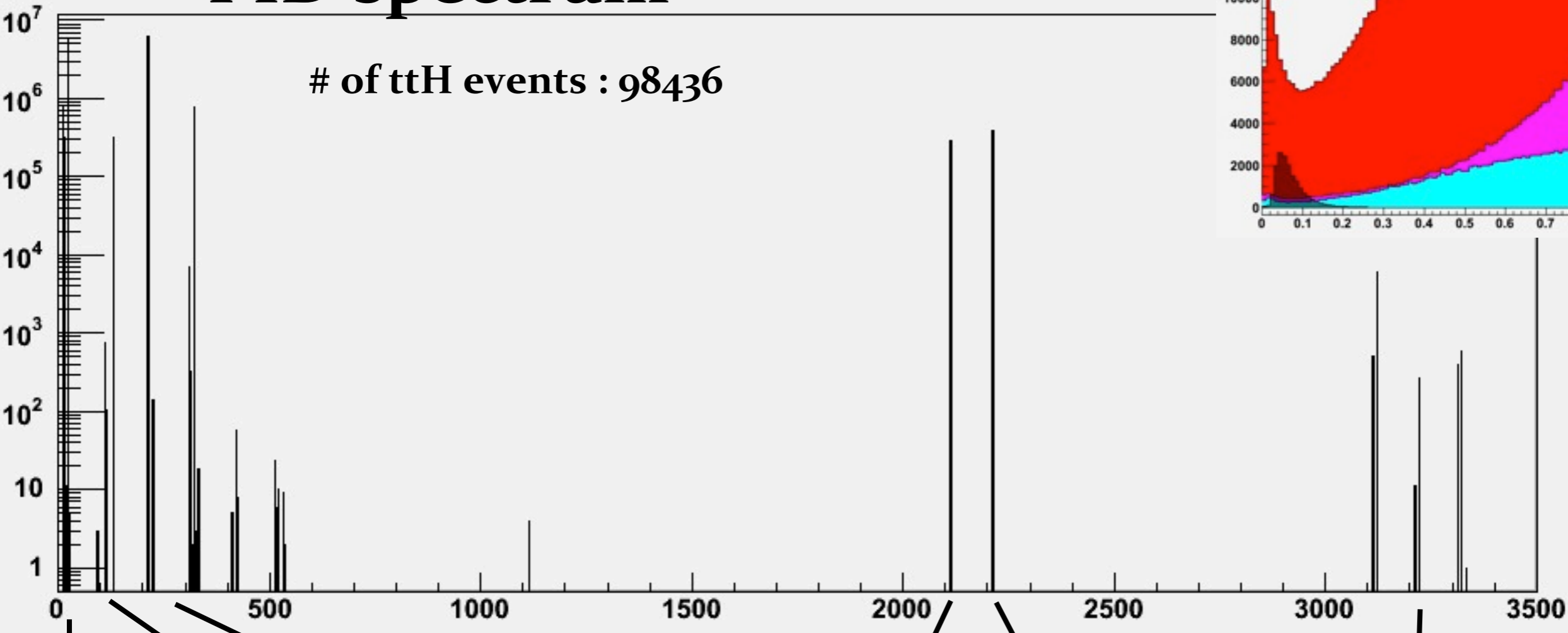
Parameter optimization to find isolated lepton using ttH event samples

As for finding isolated leptons,  $\pi$ , K, P can be background.

(ECal energy / Total Cal energy ), (Total Cal energy / momentum), charge

### PID spectrum

# of ttH events : 98436



leptons  
+ photon  
+ etc.

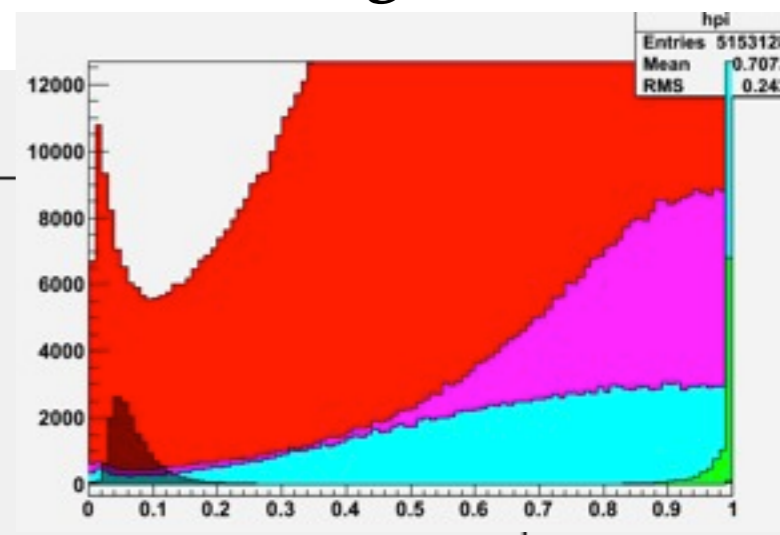
neutral  
mesons  
( $\pi$ ,  $K^0_L$ , ...)

charged  
mesons  
( $\pi$ , K)

neutrons

protons

other baryons



What I'm thinking now...

If isolated lepton candidate are found more than two, how to select one of these?

Next plan is to find the answer.