

Measurement of Top Momentum

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Current Status

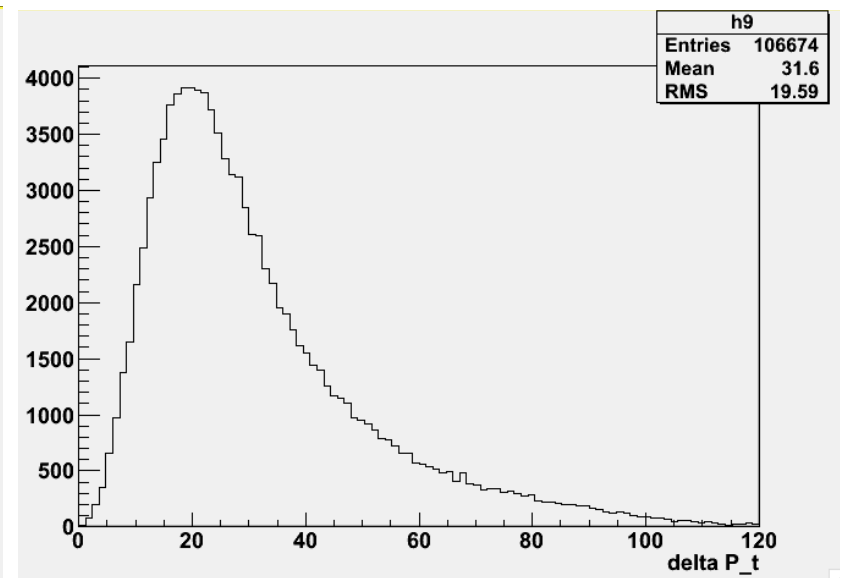
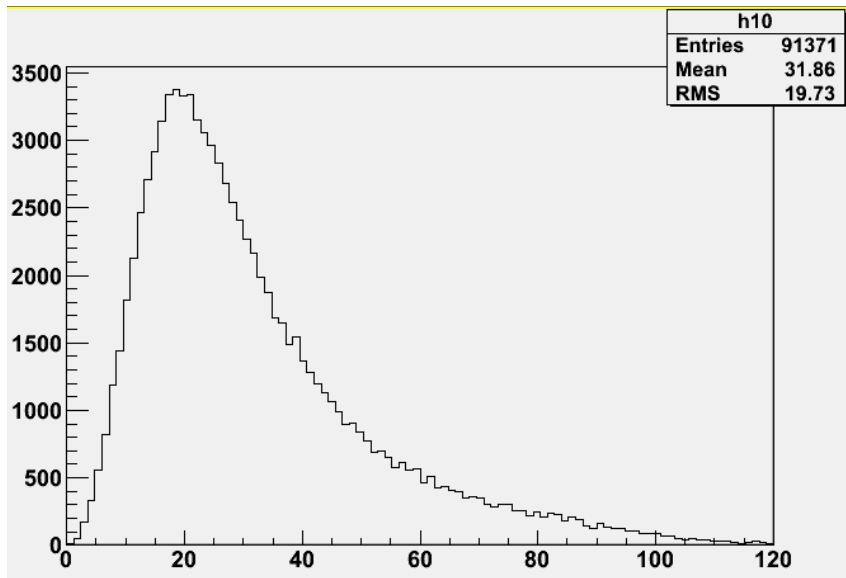
- Understanding the macro that Ozawa-san made
- Making the graph of Ozawa-san's master thesis.

Simulation Set Up

- $\sqrt{s}=347\text{GeV}$
- $L_{\text{int}}=100\text{fb}^{-1}(\text{Left}),100\text{fb}^{-1}(\text{Right})$

Mometum Distribution

$$P = (N_R - N_L) / (N_R + N_L)$$



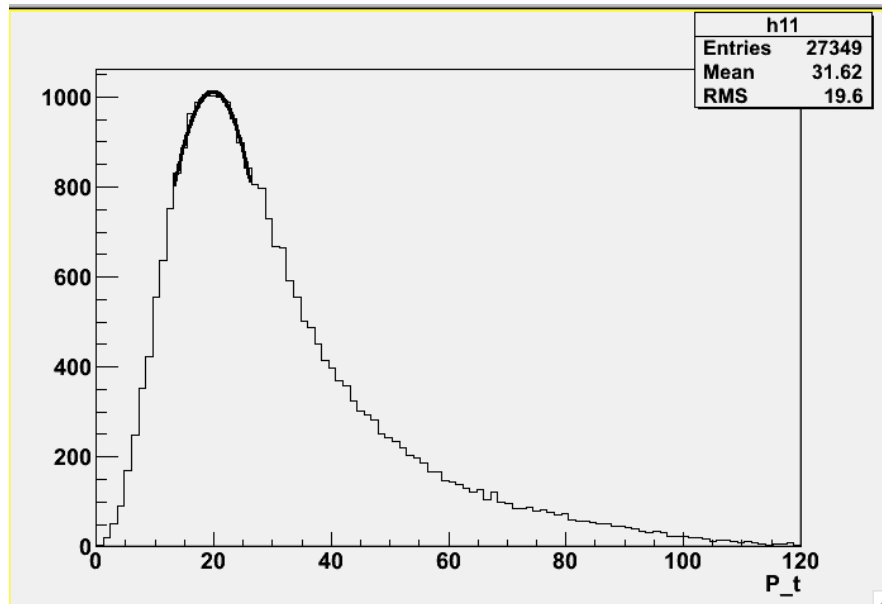
$$P(e^+, e^-) = (+100\%, -100\%)$$

$$P(e^+, e^-) = (-100\%, +100\%)$$

Ozawa-san required that $\cos\theta_{bw}$ is minimum, but I don't know the way of minimization.

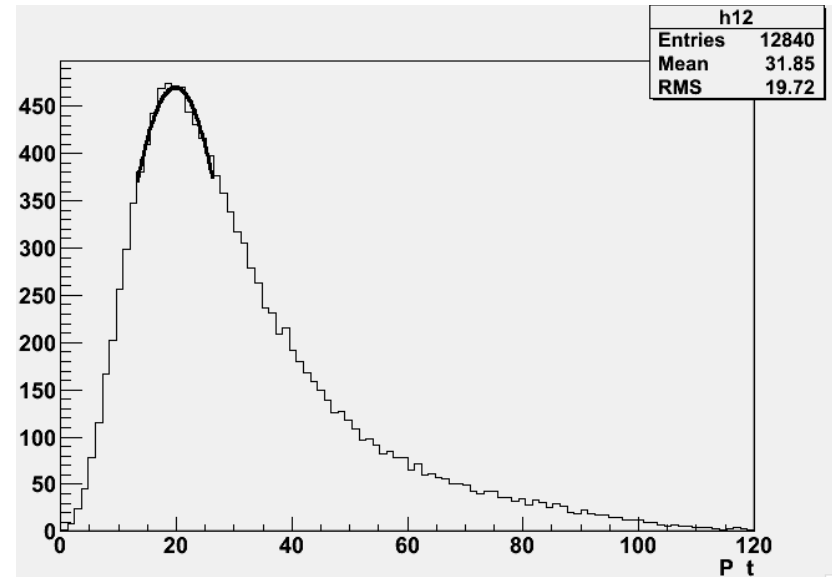
Estimation of peak position(hadronic)

$P(e^+,e^-)=(+30\%,-80\%)$



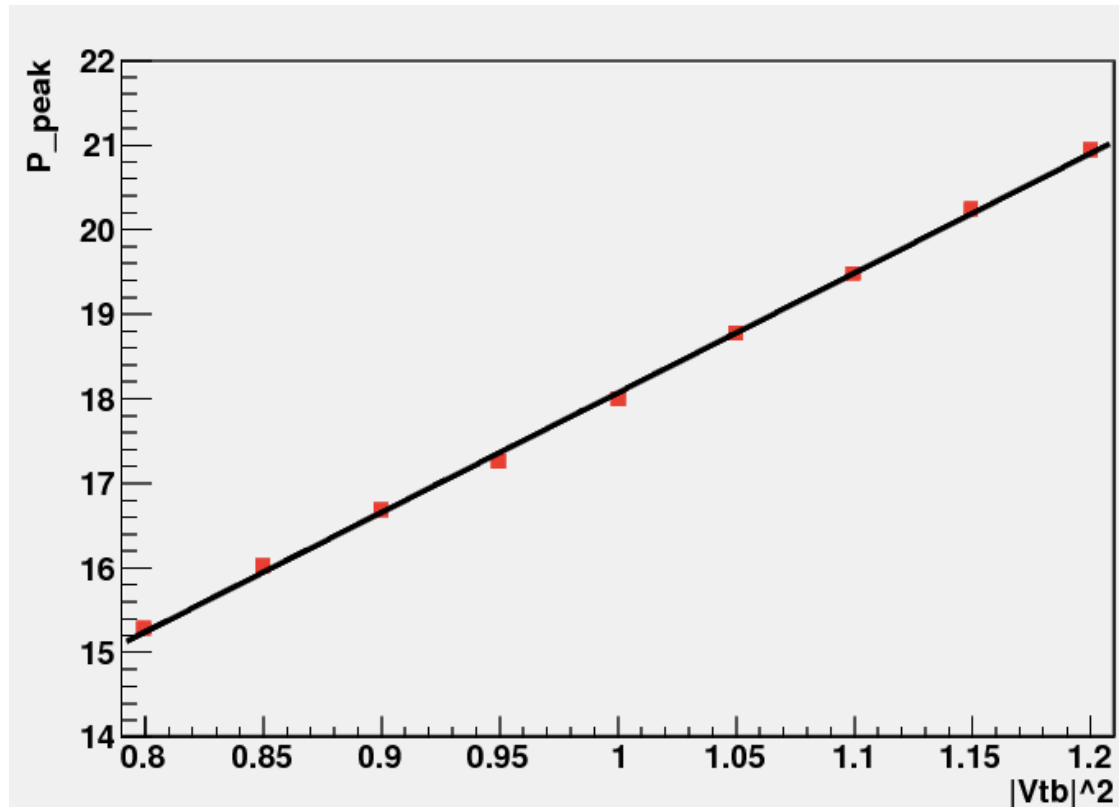
$$P_{\text{peak}} = 19.9 \pm 0.243 \text{ GeV}$$

$P(e^+,e^-)=(-30\%,+80\%)$



$$P_{\text{peak}} = 19.9 \pm 0.347 \text{ GeV}$$

the momentum peak position
as a function of $|V_{tb}|^2$



Plan

- Understanding the Ozawa-san's event selection
- Improving Ozawa-san's processor