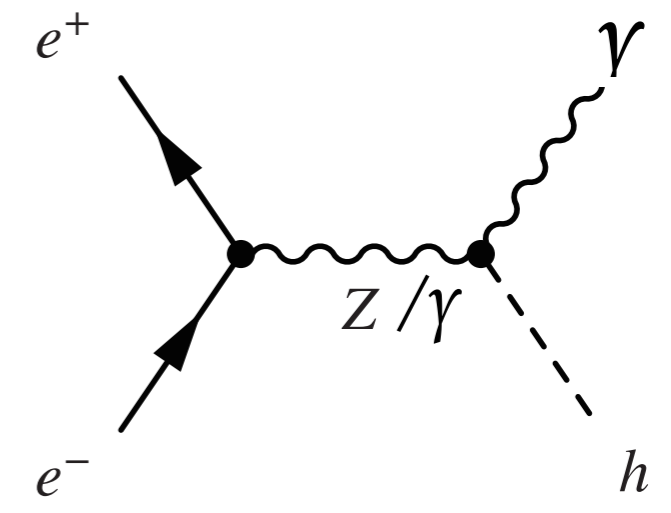


$e^+e^- \rightarrow \gamma h$. $h \rightarrow WW^*$ channel



Make root files of signal and bg



Merge files



Consider cut



TMVA

- Y- cut
- W mass cut

Strategy



$$e^+e^- \rightarrow \gamma h \rightarrow \gamma(WW^*)$$

$$e^+e^- \rightarrow W^+W^-(\gamma)$$

mass other than real W

mass other than real W

< 50 GeV

~80 GeV

$m(W2) < 70 \text{ GeV}$

$m(4\text{jet}) = \text{higgs mass}$

$m(4\text{jet}) = \text{center mass energy}$

$115 < m(4\text{jet}) < 135 \text{ GeV}$

Energy of isolated monochromatic photon

Energy of photon ~small

~93 GeV

$83 < m(\text{photon}) < 103 \text{ GeV}$

Additional Cut



- Y^- , Y^+
 - The number of particles in jets
 - The number of charged particles in jets
- Include these parameters in Ntuple