

CHARGED HIGGS SEARCH IN WH

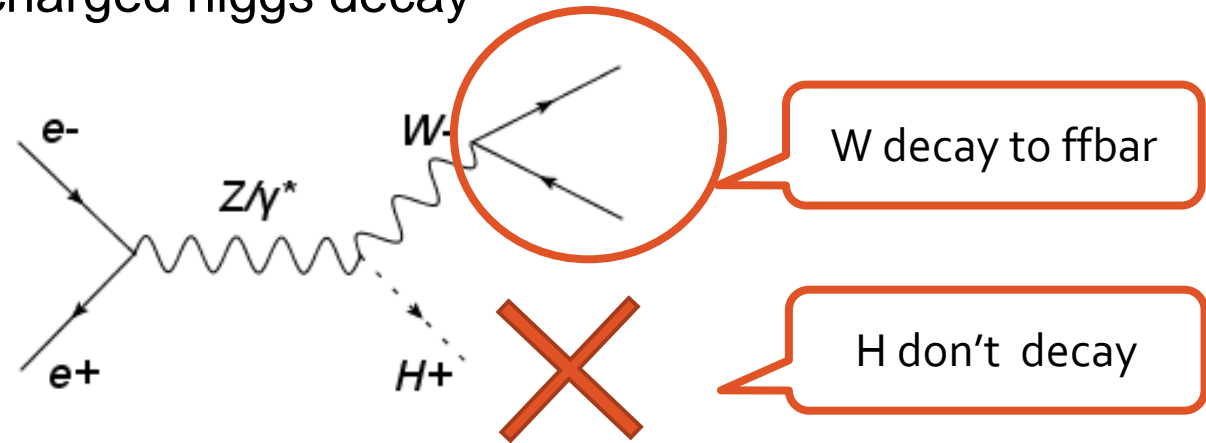
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generator of WH process

- ◆ making the generator of $e^+e^- \rightarrow W^\pm H^\mp$ process → done
- ◆ don't write charged higgs decay



- ◆ only $e^+e^- \rightarrow Z \rightarrow W^\pm H^\mp$ mode (not include $e^+e^- \rightarrow Z \rightarrow W^\pm H^\mp$ mode)



cross section of $e^+e^- \rightarrow W^\pm H^\mp$

- ◆ Beamstrahlung = 0 , Beamwidth = 0 , Bremsstrahlung = 0
- ◆ $m_H = 150 \text{ GeV}$
- ◆ pol. : only e^-
- ◆ $e^+e^- \rightarrow Z \rightarrow W^\pm H^\mp$ ($e^+e^- \rightarrow \gamma \rightarrow W^\pm H^\mp \times$)

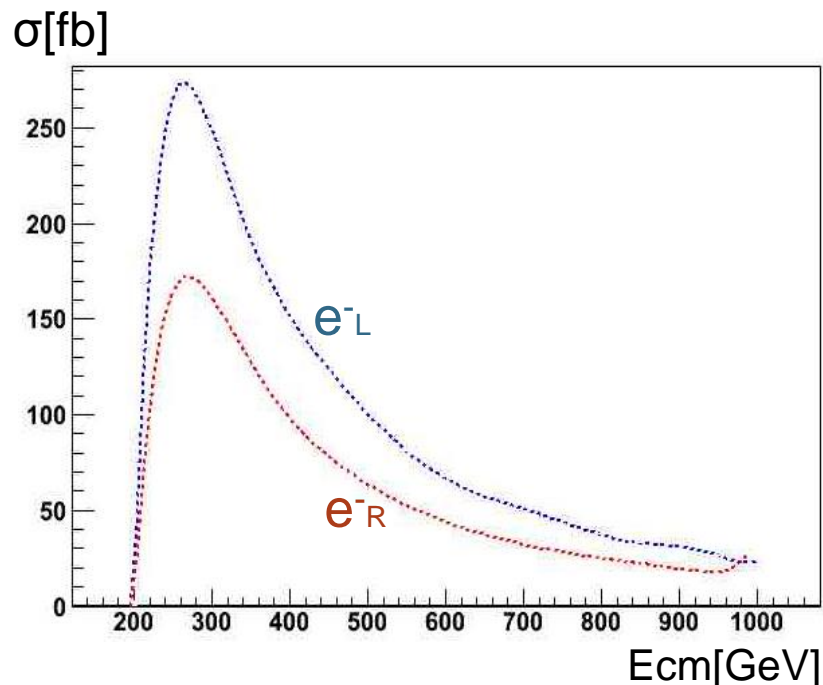
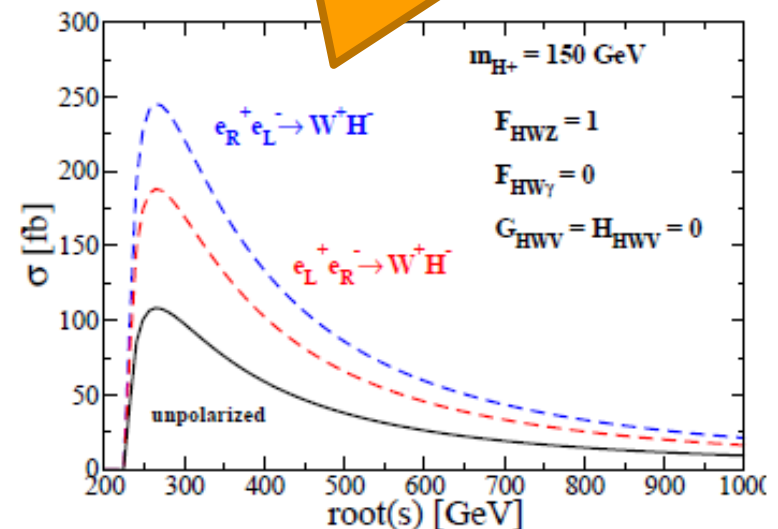


Fig : cross section of $ee \rightarrow WH$.

$m_H = 150 \text{ GeV}$
 pol. : e^+ and e^-
 $e^+e^- \rightarrow Z \rightarrow W^+H^-$



S. Kanemura, K. Yagyu and K. Yanase,
 Phys. Rev. D 83, 075018 (2011).

schedule

- ◆ generator
 - ◆ add H decay
 - ◆ taunu
 - ◆ add $e^+e^- \rightarrow Z \rightarrow W^\pm H^\mp$ mode
- ◆ study about theory of this process
 - ◆ weak interaction
 - ◆ charged higgs model