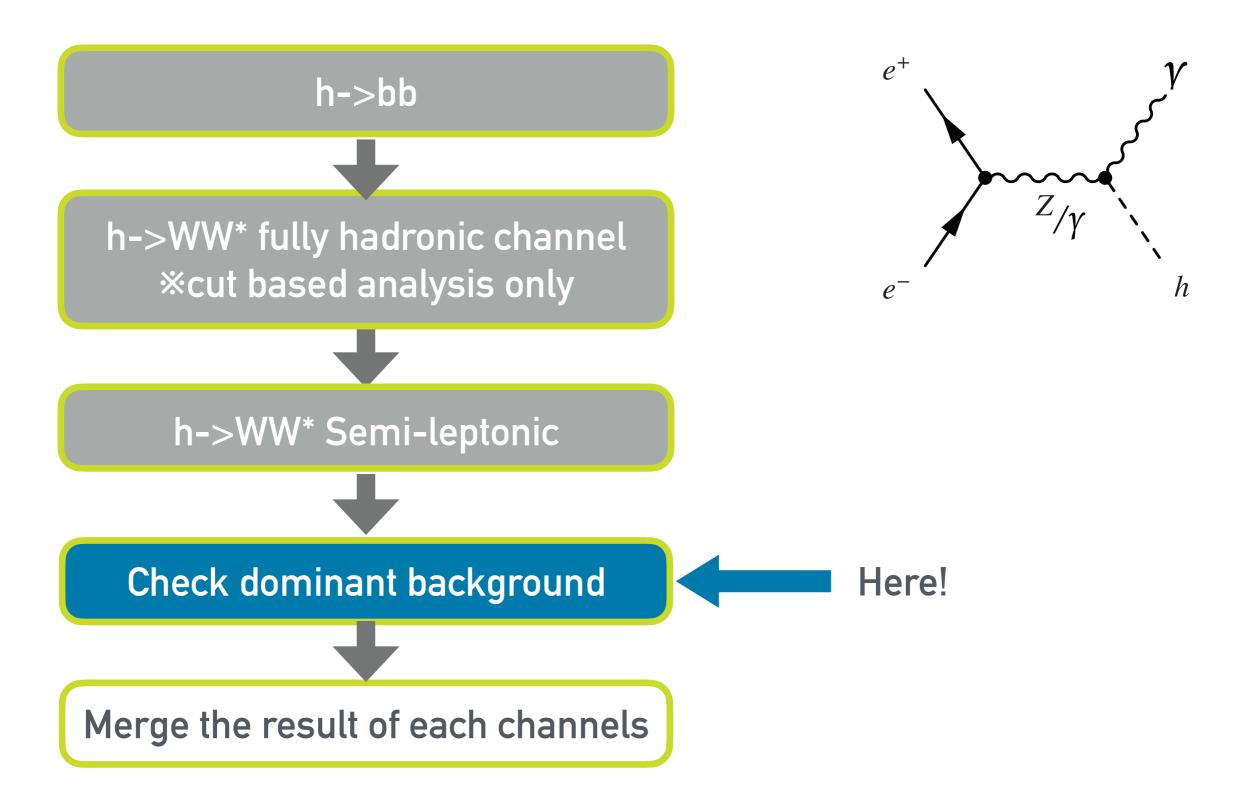
# e+e--> $\gamma$ h Status



## 5/15

# Dominant Background

Propose: Estimate monte calro fluctuation

- 1. Dominant background with large weight
  - →Calculate fluctuation statistically
- 2. Remaining # of event is 0, but having large weight
  - →Bg suppressed at last cut might be having fluctuation
  - → Calculate upper limit of fluctuation

### 5/15

## Dominant Background(WW, sl)



Bg	# of event(2ab-1 Luminosity integrated)	Weight
4f, Single W, sl	105	13.2
4f, WW, sl	99	24.8
4f, Z, I	58	11.7

3

### Applied cuts

# of particle>1

# of charged particle >1

|mw1-80.4|<10 GeV or

|mw2-80.4|<9.4 GeV

114<m(2jlv)<135

90<Εγ<98

 $105 < m(\gamma qq) < 190$ 

 $-0.9 < \cos\Theta < 0.9$ 

Emis>10

bmax1<0.77

### 5/15

## Dominant Background(bb)

Bg	# of event(2ab-1 Luminosity integrated)	Weight
2f Z, h	19027	86.5
4f, WW, sl	70	4.66
4f, WW, h	60	4.67

#### mva parameter:

Applied cuts

bmax1>0.77

emis<35

mvabdt > 0.0126

higgs mass

angle between gamma & beam

energy of photon,

angle between 2 jets,

smaller angle between jet & photon