

Project 1: $p p \rightarrow H \rightarrow h h \rightarrow W^+ W^- \gamma \gamma$ 8TeV collision study (ATLAS).

- Hadronic decay: $WW \rightarrow jjjj$.
- Leptonic decay: $WW \rightarrow \ell \nu \ell \nu$.
- Semi-leptonic decay: $WW \rightarrow \ell \nu jj$.

Project 2: $p p \rightarrow H \rightarrow h h \rightarrow b \bar{b} \gamma \gamma$ for 100TeV collision study (CEPC).

Now running all the above processes, both signal and background.