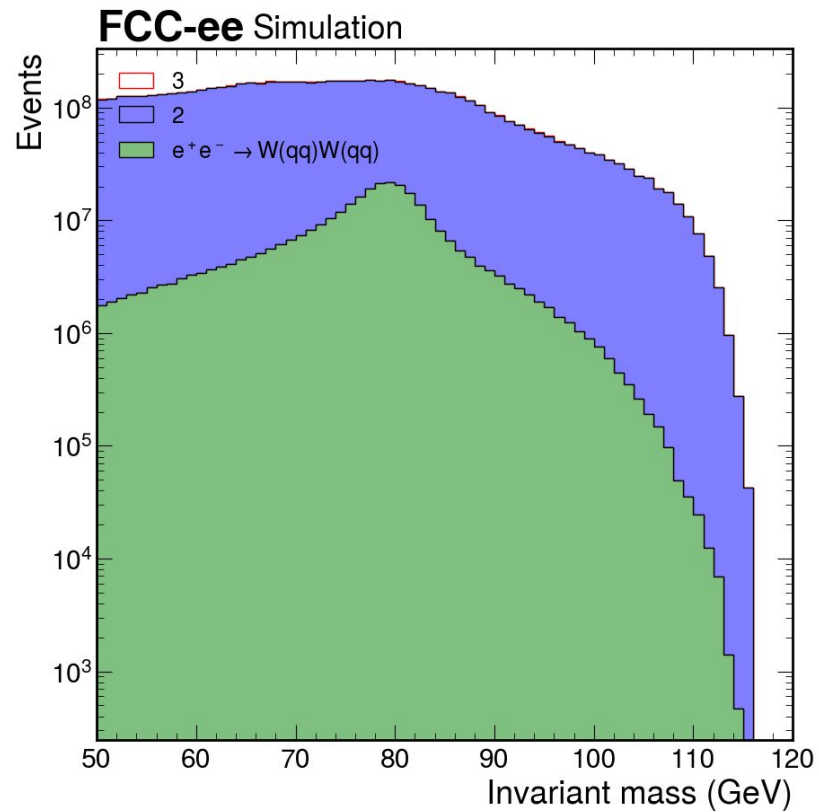


W mass

# Process

- Using the  $e^+e^- \rightarrow W^+W^- \rightarrow W(qq)W(qq)$  to find the mass of the W boson
- Jet clustering to identify the quarks
- Use  $\chi^2 = (m(qq) - m_W)^2 + (m(qq) - m_W)^2$  to find best pairing of jets (minimize)
-

# Plot



# Need to work on

- Cuts
  - Remove background events e.g ( $e^+e^- \rightarrow ZZ$ )
  - Lepton cuts
  - 
  -