



- $e^+e^- \rightarrow \mu^+\mu^-Z', Z' \rightarrow \tau^+\tau^-, \tau^\pm \rightarrow l^\pm \nu_l \nu_\tau$
- $e^+e^- \rightarrow \mu^+\mu^-$
- ▲—  $e^+e^- \rightarrow \tau^+\tau^-$
- $e^+e^- \rightarrow \mu^+\mu^-\mu^+\mu^-$
- △—  $e^+e^- \rightarrow e^+e^-\mu^+\mu^-$

#0, no cuts

+ #1, 2 tracks &  $\sum Q=0$

+ #2,  $CL_{\text{vtx}}$

+ #3, Energy conservation

+ #4,  $E_{\text{sum}}$

+ #5,  $p_t$

+ #6, Open angle between tracks + mass conservation

+ #7, Recoiling muon pair polar angle

+ #8,  $\cos(\phi_{\text{FS}} - \phi_\gamma)$

+ #9,  $\theta_{\text{missing } Z'}$