

# WIMP benchmark (R.Yonamine)

The discontinuity problem seen in the exclusion limit

## ❖ News

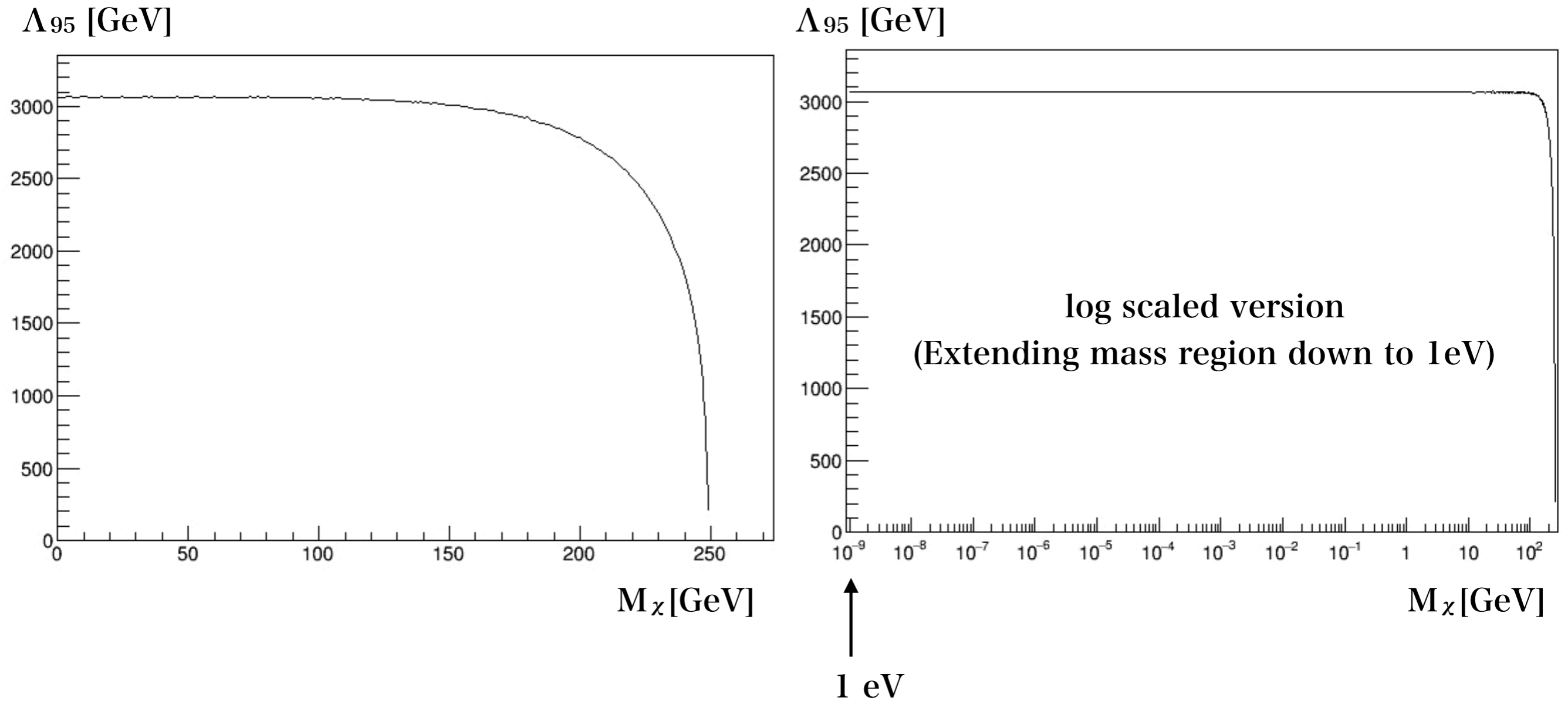
- ▶ After discussing with Keisuke, I have conclude that this discontinuity is caused by a technical problem.
- ▶ There should be something to be fixed in a macro that calculate exclusion limits for special cases where ISR photons are wrongly reconstructed e.g.  $E > 250 \text{ GeV}$  even though  $E_{\text{beam}} = 250 \text{ GeV}$ .

## ❖ Plan

- ▶ Considering the time limitation, the best is simply putting  $E_{\text{max}} < \sim 250 \text{ GeV}$  for IDR.
- ▶ Investigate how the macro handles such unreasonable events and hopefully fix it for future studies.

# New sensitivity plot

s5, Vector operator case



Other operator/detector cases are under processing.

I'm planing to finalise the plots and present at the next ILD sw/ana meeting.