

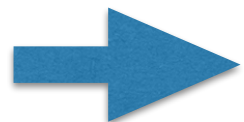
Current status 9/16

- ILC 250 with ISR / BS
- Pol(e^+, e^-) = (+0.8, -0.3) : $\mathcal{L} = 900 [\text{fb}^{-1}]$

ILD work in progress

| | Signal Entries | | | | |
|--|----------------|----------|-----------|-----------|-----------|
| | $M_N=85$ | $M_N=95$ | $M_N=100$ | $M_N=110$ | $M_N=120$ |
| No cut | 48 | 48 | 39 | 19 | 3 |
| $e_{\text{iso}} \# = 2 \ \&\& \ \gamma_{\text{iso}} \# = 0$ &\& $\mu_{\text{iso}} \# = 0$ | 10 | 16 | 13 | 6 | 1 |

Problem: lose many isolated electron in the point of precut

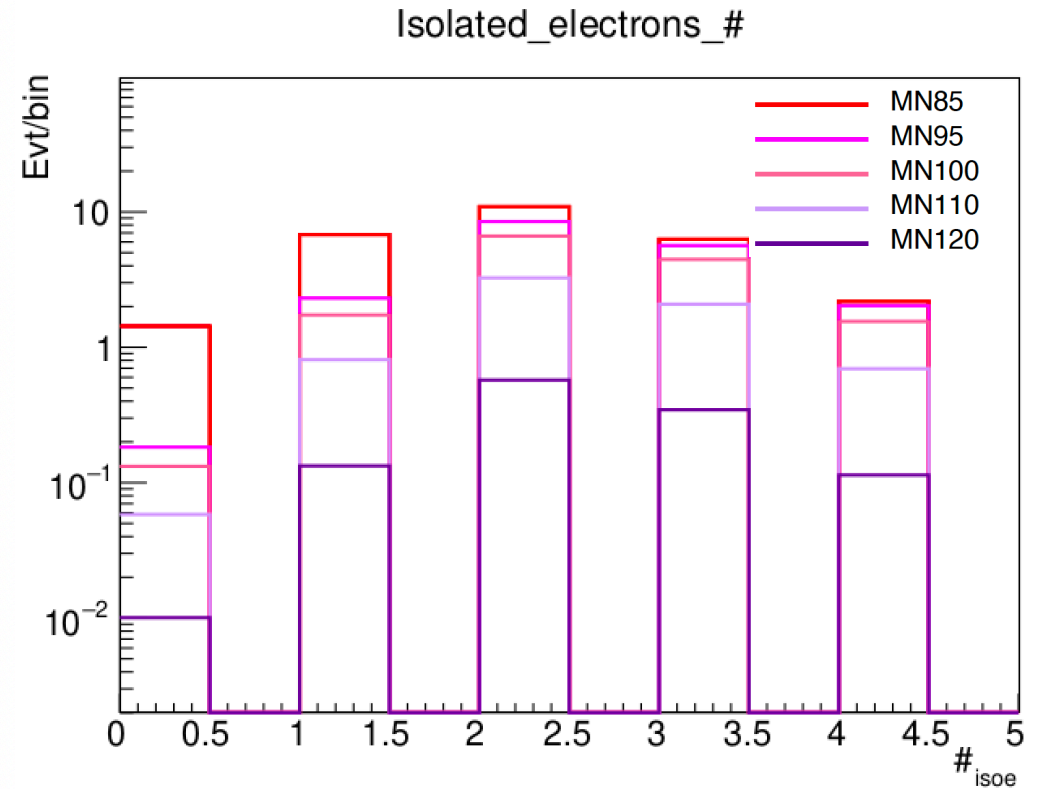
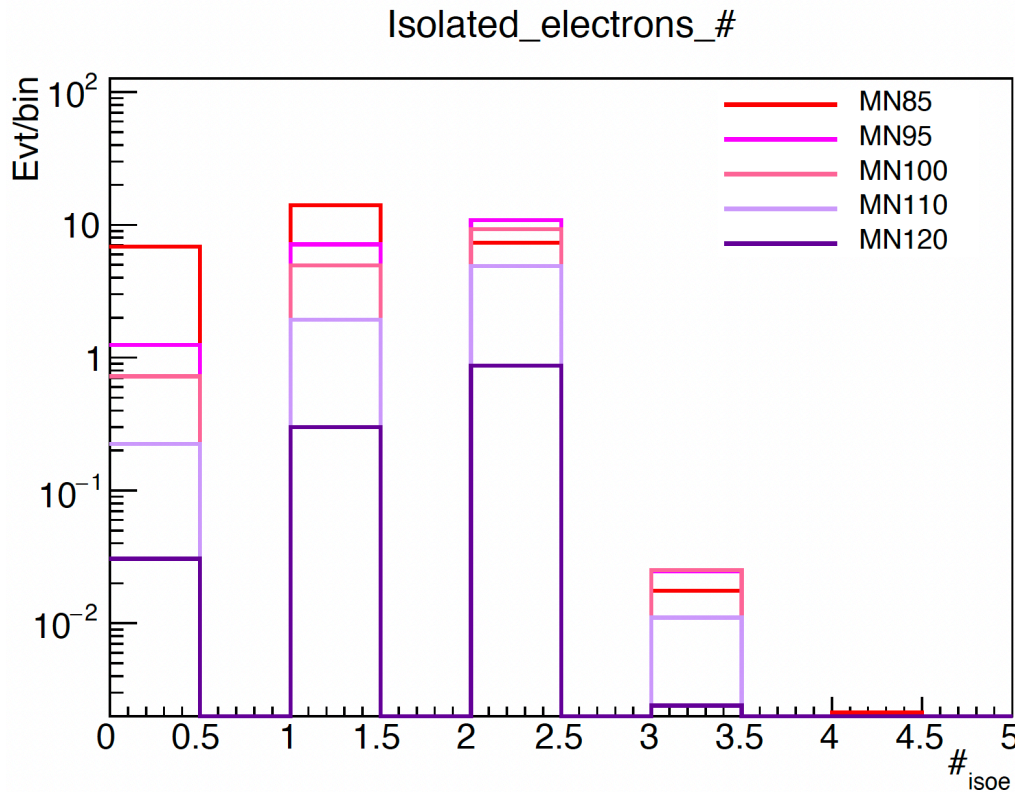


MVA cut 0.5 (default) \rightarrow 0

Isolated electron

MVA = 0.5

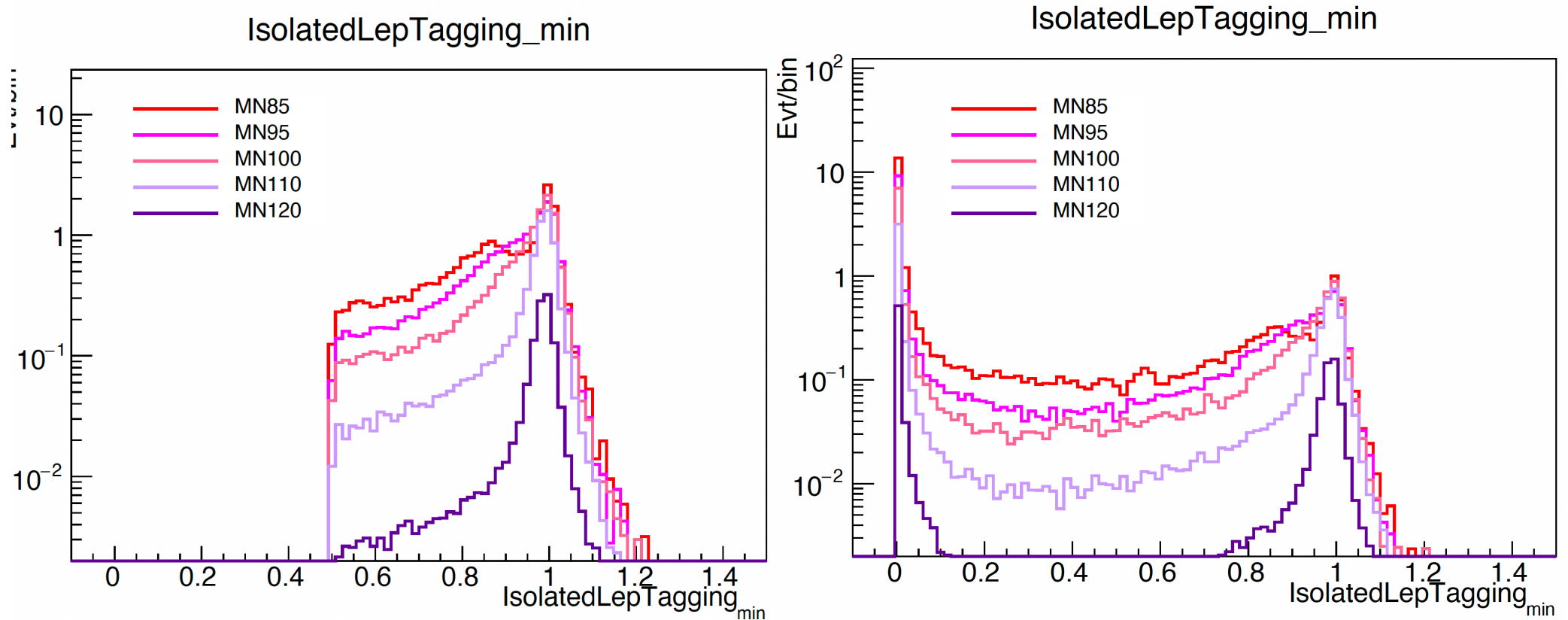
MVA = 0



At least 2 iso e is much better

$e_{\text{iso}} \# = 2 \rightarrow e_{\text{iso}} \# \geq 2$

IsolatedLepTagging min



IsolatedLepTag > 0.9 \rightarrow IsolatedLepTag ≥ 0.1

I plan to add this IsolatedLepTag selection to preselection