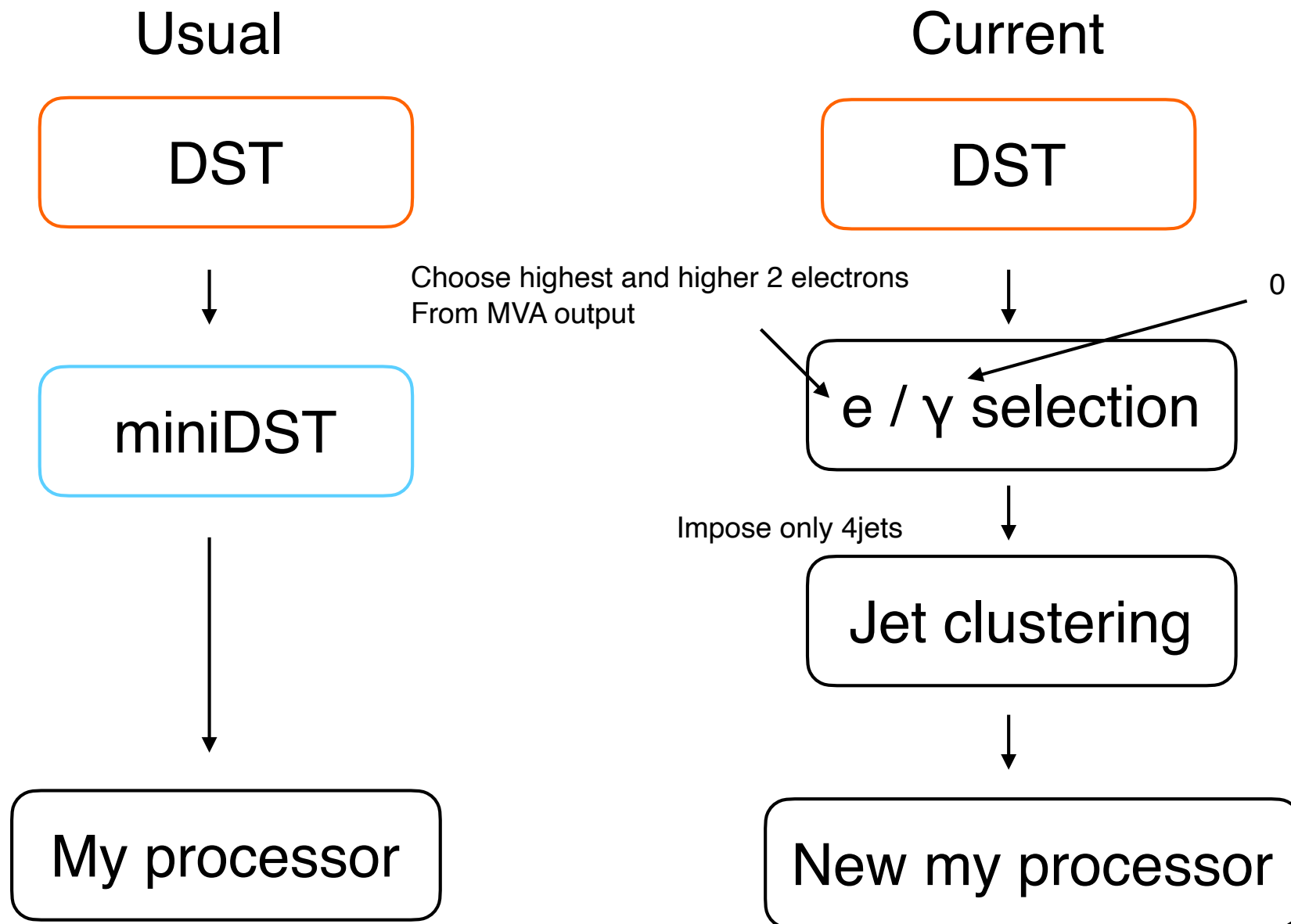


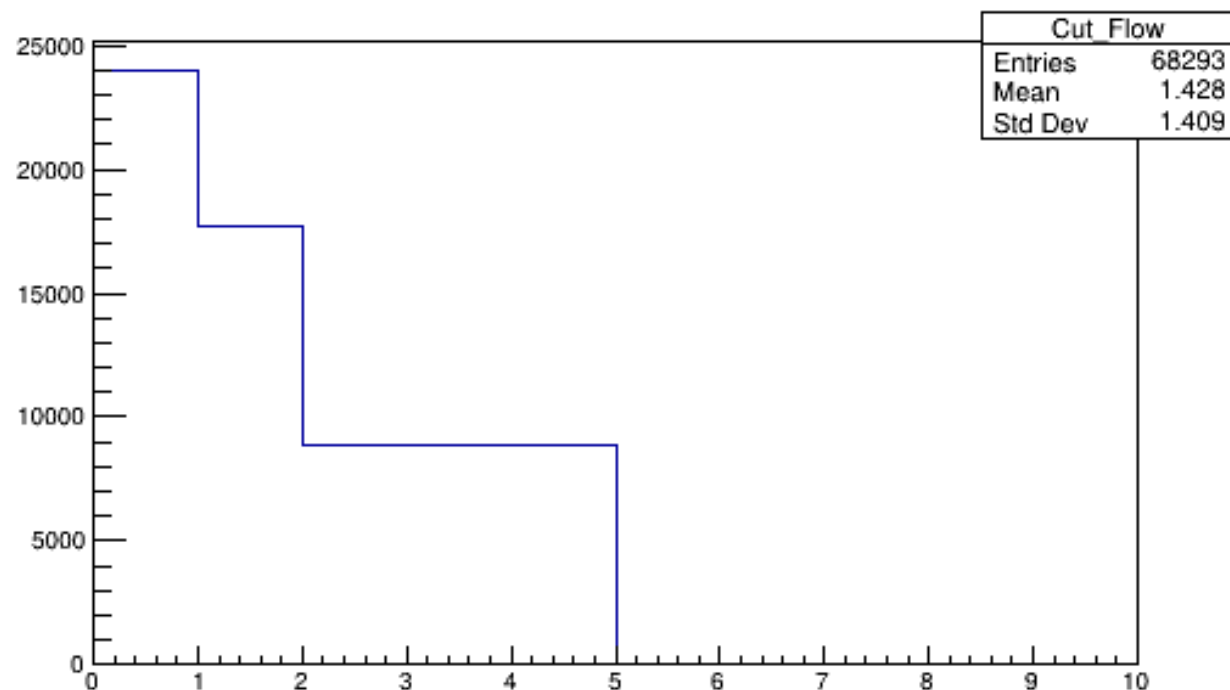
Issue: lose many isolated electron in the point of precut

1. Changing MVA cut is insufficient for improving this issue.
2. To select 2 isolated electrons accurately, we need to reject isolated electrons from B decay.
→ Impact parameter is effective
3. miniDST doesn't store "impact parameter" but DST keeps it
→ forget miniDST

Processor



$M_{\text{RHN}} = 100 \text{ GeV}$
eRpL



Cut flow 1 : No cut (evt = 24000)

Cut flow 2 : electron number is 2

Cut flow 3 : same sign

The conventional way was 1/3 the efficiency in the point of selection of 2 electrons and 0 photon, so it is improved.

Future tasks

- Applying background samples (ongoing)
first steps: 4 fermion single W semileptonic samples
- Add impact parameter cuts

Impact parameter for best isolated electron

$M_{\text{RHN}} = 100 \text{ GeV}$
eRpL

