

- Aim to see the effect of pileup on the signal efficiency for the slepton signal regions.
- Define 3 different subsamples according to the number of true interactions:
  - Low pileup:  $n_{\text{TrueInt}} < 20$
  - Medium pileup:  $20 < n_{\text{TrueInt}} < 30$
  - High pileup:  $n_{\text{TrueInt}} > 30$
- Calculate efficiency for each subsample as  $\frac{\text{\#SignalRegionsCuts}}{\text{\#AllSignalEvents}}$
- Estimate the maximum efficiency deviation from the 3 subsamples.
- Compare also to the pure statistical uncertainty of the efficiency.

