# New Framework Overview

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# Overview

- Compare updated W background estimates from both frameworks
- List changes since last week
- Twiki with instructions to have a go yourself can be found here

# Checks of framework

- $W \to \mu/e\nu$ background estimate module was producing slightly different results from old FW
- Unweighted results were identical to old framework
- Bug found in lepton weights code
- New weighted results are as below:
  - Note these numbers are different from those in our AN as they use the re-reco data

| Result | Old FW munu | New FW munu | Old FW enu | New FW enu |
|--------|-------------|-------------|------------|------------|
| NSMC | 123 | 123 | 124 | 124 |
| NCMC | 371 | 371 | 113 | 113 |
| NCData−NCBkg | 196 | 196 | 62 | 62 |
| Result | 65.1 | 65.1 | 68.3 | 68.3 |

# Updates since last week

- ▶ Light tree making part of old framework separated into its own executable
- - Much faster (less than half the time)
- - Should now be easier for new users to customise and run
- ▶ Configuration files and filelist parser added to light tree analyser
- - Code is now much neater and more changes can be made without recompiling
- ▶ Variable list adjusted to be compatible with all control regions of prompt analysis, Joao and Anne Marie's QCD pre-selection and future signal selection BDT.
- - Still open to optimization

# Conclusions

- ► New framework reproduces to results of old framework
- ► Light Ntuples will be uploaded to dcache soon
- - Last couple of data jobs are running
- ► Instruction to try it out can be found here