

New Framework Overview

P. Dunne



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

- $\blacktriangleright W \to \mu/e\nu$ 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



Backup

