

STATUS REPORT ON SEMILEPTONIC WW/WZ DECAY

Federico Bertolucci
Chiara Roda

11 Giugno 2013

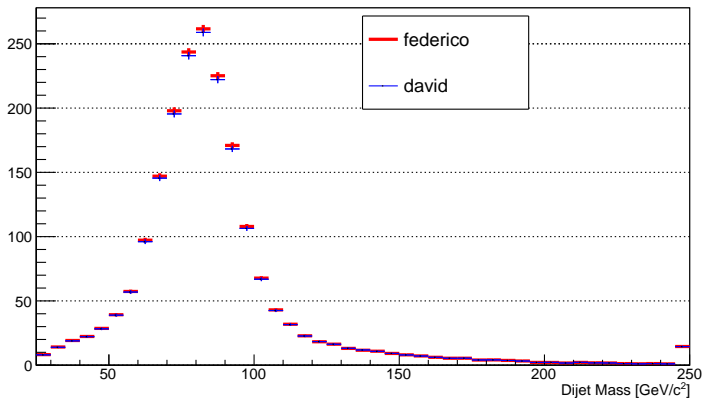
- cutflow status
- works on fit
- aTGC studies
- meeting with EB

cutflow status

- cutflow seems to be in a nice status
- still a few things to discuss
 - in 4 samples, David and me we have different results (more thn 2%)
 - sample normalization

templates comparison

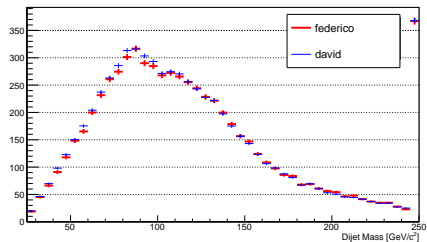
Since the cutflow is quite good, we started to check the distributions for the different samples we use in the fit. Will show only templates for which we understand differences.



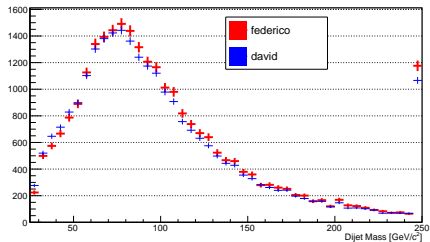
- WW + WZ signal
- differences are due to WZ only

other templates

top template:



W+jets HF template:



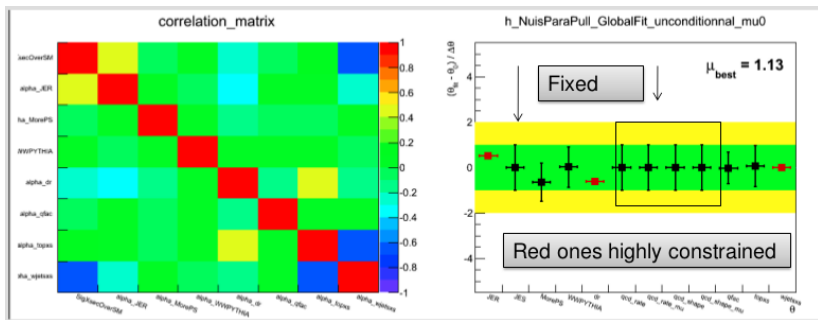
aTGC status

studies done/ongoing:

- check that our limit estimates are very similar to the limits obtained with infinite statistics
- found an optimal binning for the pT_{jj} spectrum
- expected improvement from additional MC: 4.5%

Cross Section fit

- Chiara had started to look at the Cross Section fit and started checks with new tools
- fitting CONF note results with new tools: ok
- looking at correlations among fit parameters



- working on symmetrization of JER

meeting with the EB

- we had a meeting with the EB
- a few things we need to answer/study
- correct treatment of JES
- a few cuts to discuss about
- finalize aTGC measurement