Unbinned fit in Zy boosted analysis

Xiaohu SUN IHEP 2016-05-30

p0 issue @ 2.6TeV

Bill asked:

Fig 13 b shows p-values where the event at 2.35 TeV makes a deltafunction spike, while that at 2.6 TeV is much broader.





Removing all systematic uncertainties scan p0

The peaks are fat, which means smaller p0 values (larger significance)





Remove JES only



Add back JES

Add Rtrk_baseline Rtrk_model Rtrk_track Now all systs are in place

Peaks are even more narrower due to Large uncertainties on JES



Check with Ntrk unc

Add a limit curve in red, for introducing only uncertainty due to Ntrk The impact is less than 1% on the expected limits for all masses



Backup

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