

Weekly Meeting

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Monday, May 02, 2016

Systematics

- -0.172766 % :: EG_RESOLUTION_ALL__1down
- 0.05628 % :: EG_RESOLUTION_ALL__1up
- -0.253631 % :: EG_SCALE_ALL__1down
- 0.215384 % :: EG_SCALE_ALL__1up
- -0.131492 % :: EL_EFF_ID_TotalCorrUncertainty__1down
- 0.131658 % :: EL_EFF_ID_TotalCorrUncertainty__1up
- -0.0408466 % :: EL_EFF_Iso_TotalCorrUncertainty__1down
- 0.0408486 % :: EL_EFF_Iso_TotalCorrUncertainty__1up
- -0.0639844 % :: EL_EFF_Reco_TotalCorrUncertainty__1down
- 0.0640169 % :: EL_EFF_Reco_TotalCorrUncertainty__1up
- 1.63217 % :: FT_EFF_Eigen_B_0__1down
- -1.61039 % :: FT_EFF_Eigen_B_0__1up
- 1.1043 % :: FT_EFF_Eigen_B_1__1down
- -1.09439 % :: FT_EFF_Eigen_B_1__1up
- -0.30678 % :: FT_EFF_Eigen_B_2__1down
- 0.307766 % :: FT_EFF_Eigen_B_2__1up
- 0.016653 % :: FT_EFF_Eigen_B_4__1down
- -0.0167136 % :: FT_EFF_Eigen_B_4__1up
- 1.18198 % :: FT_EFF_Eigen_C_0__1down
- -1.16765 % :: FT_EFF_Eigen_C_0__1up
- -0.0302555 % :: FT_EFF_Eigen_C_1__1down
- 0.0290644 % :: FT_EFF_Eigen_C_1__1up
- -0.00339022 % :: MUON_ISO_STAT__1down
- 0.00339742 % :: MUON_ISO_STAT__1up
- -0.0278716 % :: MUON_ISO_SYS__1down
- 0.027903 % :: MUON_ISO_SYS__1up
- -0.0141458 % :: MUON_TTVA_STAT__1down
- 0.014166 % :: MUON_TTVA_STAT__1up
- -0.0376957 % :: MUON_TTVA_SYS__1down
- 0.0377311 % :: MUON_TTVA_SYS__1up
- -2.43857 % :: PH_EFF_ID_Uncertainty__1down
- 2.46892 % :: PH_EFF_ID_Uncertainty__1up
- -3.59489 % :: PH_EFF_TRKISO_Uncertainty__1down
- 3.66127 % :: PH_EFF_TRKISO_Uncertainty__1up
- 0.309215 % :: PRW_DATASF__1down
- -0.149804 % :: PRW_DATASF__1up

The yields for SM Higgs processes

With h010 samples

The updates to the yield for SM Higgs processes are listed in the table

They are consistent with what are gotten without lumiXsecWeight

Process	Xsec [pb]	Run1 results (20.3 fb^{-1})	Events Yield (3.2 fb^{-1})	Events Yield (3.2 fb^{-1}) with lumiXsecWeight
ttH	0.5085	0.08	0.039	0.03848
ggH	43.92	negligible	negligible (0.0002)	0
VBF	3.748	negligible	0.008	0
WH	1.380	0.14	0.098	0.073292
ZH	0.8696	0.025	0.028	0.017799

Next to do

- For the WH sample
 - Need to find another sample
- For the fitting of $m_{\gamma\gamma}$
- For systematics
 - Check and then to get limits