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ManuellaVincterSandbox

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Introduction

MC file NTUP_SMWZ.01109212._000050.root.1 of
 mc12_8TeV.147806.PowhegPythia8_AU2CT10_Zee.merge.NTUP_SMWZ.e1169_s1469_s1470_r3542_r3549_p1328

Repeat each selection

- 1) just using MC weights
- 2) mcweights+zvertex weights
- 3) mcweights+zvertex+pileup weights
- 4) mcweights+zvertex+pileup weights + objects smeared as per CP recommendations
- 5) mcweights+zvertex+pileup weights + objects smeared as per CP recommendations + objects scaled (reco+eff+trigger) as per CP recommendations

All cutflow numbers are per event (not per object)

ZCC selection 1 (single lepton trigger):

Cut	Cutflow	MGV	MGV	MGV	MGV	MGV	MGV
		mcw	mcw+vz	mcw+vz+PU	mcw+vz+PU+smeared	mcw+vz+PU+SF	mcw+vz+PU+smeared
0)	No cuts						
1)	trigger e24vhi_medium OR e60_medium						
2)	vxp_nTracks(0).ge.3						
3)	author = 1 or 3						
4)	abs(cluster eta).lt.2.47 excluding 1.37-1.52						
5)	el_OQ&1446 & larError.lt.2						
6)	at least one with pT.gt.25 (pT = cluster E/cosh(cl eta))						
7)	at least one with medium++						
8)	exactly 2 ele pass cuts 1-7 except 2nd ele can have pT.gt. 15.						
9)	opposite charge						
10)							

Mee=66-116 (cluster quantities)							
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ZCC selection 2 (dilepton trigger)

Cut	Cutflow	MGV	MGV	MGV	MGV	MGV	MGV
		mcw	mcw+vz	mcw+vz+PU	mcw+vz+PU+smear	mcw+vz+PU+SF	mcw+vx+PU+smea
0)	No cuts	10000	10000	10000	10000	10000	
1)	trigger 2e12Tvh_loose1	4297	4275.9	5325.6	5325.6	5325.6(noSF)	
2)	vxp_nTracks(0).ge.3	4273	4249.2	5287.3	5287.3	5287.3(noSF)	
3)	author = 1 or 3	4273	4249.2	5287.3	5287.3	5287.3(noSF)	
4)	cluster eta.lt.2.47 excluding 1.37-1.52	4269	4244.9	5282.2	5282.2	5282.2(noSF)	
5)	el_OQ&1446 & larError.lt.2	4269	4244.9	5282.2	5282.2	5282.2(noSF)	
6)	at least one with pT.gt.15 (pT = cluster E/cosh(cl eta))	4260	4234.5	5270.1	5270.1	5270.1(noSF)	
7)	at least one with medium++	4207	4180.6	5199.7	5202.0		
8)	exactly 2 ele pass cuts 1-7	3221	3208.0	3980.7	3983.3	3788.8(no trigSF)	
9)	opposite charge	3156	3139.6	3892.6	3895.2	3706.9(no trigSF)	
10)	Mee=66-116 (cluster quantities)	3056	3049.7	3777.9	3780.2	3598.1(no trigSF)	

ZCF selection

Cut	Cutflow	MGV	MGV	MGV	MGV	MGV	MGV
		mcw	mcw+vz	mcw+vz+PU	mcw+vz+PU+smear	mcw+vz+PU+SF	mcw+vz+PU
0)	No cuts	10000	10000	10000			
1)	trigger e24vhi_medium OR e60_medium	6447	6404.4	7942.2			
2)	vxp_nTracks(0).ge.3	6417	6317.1	7897.2			
3)	at least one author = 1 or 3 AND at least one author=8	4705	4679.2	5944.9			
4)	C: cl eta.lt.2.47 excluding 1.37-1.52 AND F: cl eta=2.5-4.9 excluding 3.16-3.35	4619	4593.1	5836.0			
5)	el_OQ&1446 & larError<2	4619	4593.1	5836.0			
6)	C: pT.gt.25 AND F: pT.gt.20 (C pT = cl	1295	1289.5	1583.6			

	$E/\cosh(\text{cl } \eta)$, $F \text{ pT} = \text{cl } E/\cosh(\text{cl } \eta)$						
7)	C: tight++ F: forward tight using 2011 macros (D3PD values)	867(645old)	867.1 (649.0old)	1073.0 (798.6old)			
8)	only one C and one F with these selections	859(643old)	859.4 (647.7old)	1061.8 (796.3old)			
9)	---						
10)	Mee=66-116 (cluster quantities)	833(626old)	835.2 (631.1old)	1033.6 (778.4old)			

-- ManuellaVincter - 22-Mar-2010

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