

# $H \rightarrow W W + 2 \text{ jets}$ Analysis



THE UNIVERSITY  
*of*  
**WISCONSIN**  
MADISON



Will Parker

University of Wisconsin – Madison

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# Unfolded Hadronic Jet Multiplicity

Weighted:

Hadronic

	0 jets	1 jet	2+ jets	
Offline	0 jets	847.738	36.0443	1.41079
1 jet	45.8637	130.364	10.1228	
2+ jets	2.41637	12.9525	34.9368	

Unweighted:

Hadronic

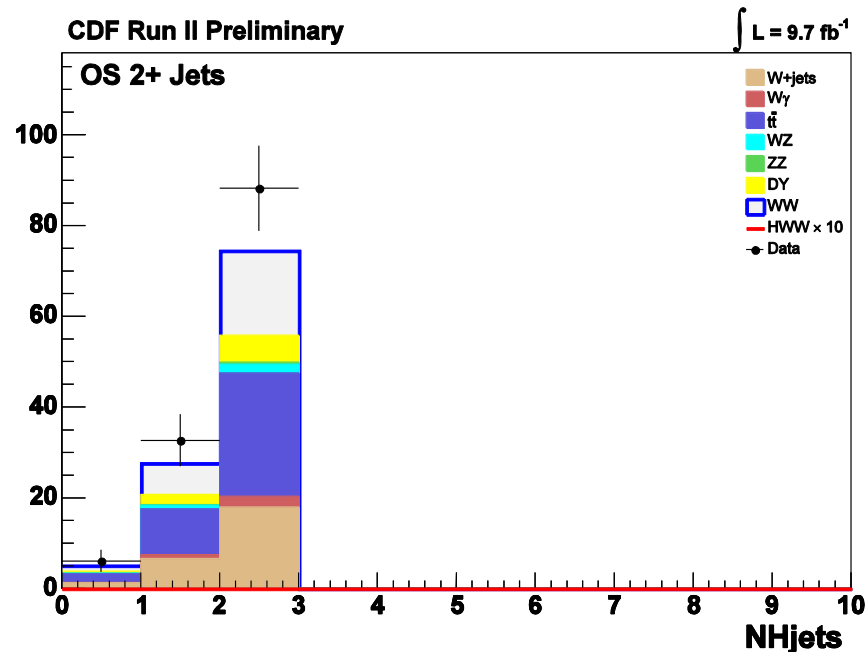
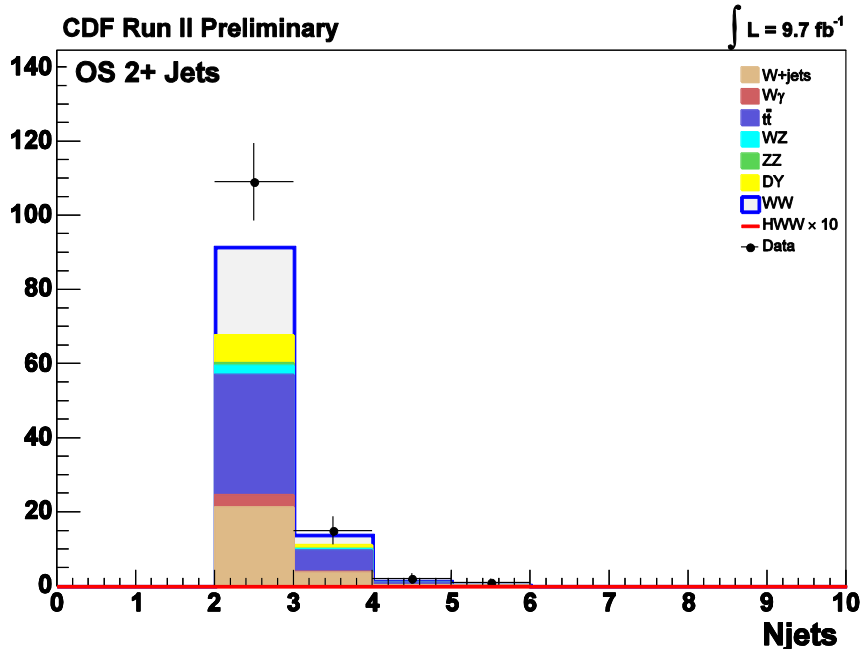
	0 jets	1 jet	2+ jets	
Offline	0 jets	84019	7381	489
1 jet	7687	62834	10377	
2+ jets	526	10675	136568	

# Unfolded Hadronic Jet Multiplicity

Probability +/- Statistical Error

Hadronic

		0 jets	1 jet	2+ jets
Offline	0 jets	0.96 +/- 3E-3	4.1E-2 +/- 5E-4	1.6E-3 +/- 7E-5
	1 jet	0.25 +/- 3E-3	0.70 +/- 3E-3	5.4E-2 +/- 5E-4
	2+ jets	4.8E-2 +/- 2E-3	0.26 +/- 2E-3	0.69 +/- 2E-3



# Unfolded Leading Hadronic Jet Et

Starting with CDF Z+jets binning, added 15-30 GeV bin, merged existing bin pairs, kept last bin. Unweighted:  
Hadronic leading jet Pt [GeV]

$p_T^{\text{jet}}$ [GeV/c]	Offline leading jet Pt [GeV]	0-15	15-30	30-41	41-54	54-72	72-110	110-195	>195
30-35	0-15	84082	6954	497	212	96	37	9	2
35-41	15-30	8307	53910	4613	461	146	67	15	0
41-47	30-41	41	16909	21984	4384	399	99	10	2
47-54	41-54	3	2988	10090	18852	4125	300	33	1
54-62	54-72	1	763	1426	7292	18087	3603	110	4
62-72	72-110	0	145	333	740	5074	22231	2203	17
72-83	110-195	0	3	13	50	159	2500	13237	484
83-110	>195	0	1	0	0	1	8	450	1993
110-146									
146-195									
195-400									