

Z+Jets background: Central + inverted VBF selections (2018 results)

Process	Data	DY+Jets	EWK W+2jets	EWK Z+2jets	QCD	SingleTop	$V_c + jets$	VBF Higgs	VV	VVV	W+Jets	$t\bar{t}$	tt+X
NRecoVertex	906579276.0	364057649.9 ± 9517.3	2581444.7 ± 227.6	447824.4 ± 71.6	1722183131882.7 ± 35304365.8	15319312.9 ± 444.2	5012474.5 ± 1033.8	1418722.4 ± 137.3	7055063.3 ± 463.2	13233.1 ± 10.6	3591490716.0 ± 99035.5	46061234.8 ± 659.0	111554.5 ± 51.5
NRecoTriggers1	764203115.0	82654548.6 ± 14896.0	641090.7 ± 395.3	77295.2 ± 115.9	93390665.8 ± 1184732.9	1449573.6 ± 433.5	1360220.9 ± 792.5	2210.4 ± 13.3	896462.4 ± 317.3	2503.0 ± 9.7	549350051.8 ± 152980.7	6777108.0 ± 634.9	19072.6 ± 25.1
NRecoMuon1	27272940.0	29349379.0 ± 9667.3	164.7 ± 7.2	29564.9 ± 81.6	113635.7 ± 38281.9	21683.1 ± 74.4	175164.2 ± 309.8	103.4 ± 0.4	46987.0 ± 58.0	202.9 ± 2.6	3804.9 ± 283.4	215524.0 ± 134.2	1027.2 ± 5.5
NRecoMuon2	27272940.0	29349379.0 ± 9667.3	164.7 ± 7.2	29564.9 ± 81.6	113635.7 ± 38281.9	21683.1 ± 74.4	175164.2 ± 309.8	103.4 ± 0.4	46987.0 ± 58.0	202.9 ± 2.6	3804.9 ± 283.4	215524.0 ± 134.2	1027.2 ± 5.5
NDiMuonCombinations	26365436.0	28806679.6 ± 9592.7	28.8 ± 3.0	27852.3 ± 79.5	20266.3 ± 19153.4	8089.5 ± 45.1	158685.2 ± 295.2	91.4 ± 0.3	33529.4 ± 40.5	108.2 ± 1.5	1340.0 ± 183.8	82612.5 ± 84.0	444.3 ± 3.5
NRecoElectron1	26317653.0	28762505.3 ± 9586.3	28.3 ± 3.0	27735.9 ± 79.4	20266.3 ± 19153.4	8029.5 ± 45.0	154135.3 ± 291.0	79.3 ± 0.3	33125.7 ± 40.3	103.7 ± 1.5	1337.1 ± 183.8	81817.4 ± 83.6	424.1 ± 3.4
NRecoTau1	262996855.0	28762501.9 ± 9586.3	28.3 ± 3.0	27735.9 ± 79.4	20266.3 ± 19153.4	8027.5 ± 44.9	154135.3 ± 291.0	79.3 ± 0.3	33125.7 ± 40.3	103.0 ± 1.5	1337.1 ± 183.8	81798.5 ± 83.6	422.2 ± 3.4
MEFCut	262996855.0	28762501.9 ± 9586.3	28.3 ± 3.0	27735.9 ± 79.4	20266.3 ± 19153.4	8027.5 ± 44.9	154135.3 ± 291.0	79.3 ± 0.3	33125.7 ± 40.3	103.0 ± 1.5	1337.1 ± 183.8	81798.5 ± 83.6	422.2 ± 3.4
NRecoJet1	262996855.0	28762501.9 ± 9586.3	28.3 ± 3.0	27735.9 ± 79.4	20266.3 ± 19153.4	8027.5 ± 44.9	154135.3 ± 291.0	79.3 ± 0.3	33125.7 ± 40.3	103.0 ± 1.5	1337.1 ± 183.8	81798.5 ± 83.6	422.2 ± 3.4
NRecoJet2	262996855.0	28762501.9 ± 9586.3	28.3 ± 3.0	27735.9 ± 79.4	20266.3 ± 19153.4	8027.5 ± 44.9	154135.3 ± 291.0	79.3 ± 0.3	33125.7 ± 40.3	103.0 ± 1.5	1337.1 ± 183.8	81798.5 ± 83.6	422.2 ± 3.4
NRecoBJet	26084346.0	28603513.5 ± 9570.0	24.0 ± 2.7	26563.8 ± 77.9	20261.3 ± 19153.4	4298.7 ± 32.3	153707.0 ± 290.6	78.6 ± 0.3	32053.0 ± 39.7	93.4 ± 1.4	1299.4 ± 183.5	27975.9 ± 49.1	145.5 ± 2.0
NDiJetCombinations	26076005.0	28596680.1 ± 9569.8	24.0 ± 2.7	25382.9 ± 76.4	20261.3 ± 19153.4	4285.2 ± 32.3	153500.2 ± 290.5	77.6 ± 0.3	31954.1 ± 39.6	92.3 ± 1.4	1295.5 ± 183.5	27711.4 ± 48.8	142.3 ± 2.0

$$SF = \frac{N_{Data} - N_{non-DY+Jets}}{N_{DY+Jets}}$$

$$SF^{CR3} = 0.90 \pm 0.001$$