## Z+Jets background: Central + inverted VBF selections (2017 results)

Process	Data	DY+Jets	EWK W+2jets	EWK Z+2jets	QCD	SingleTop	$V_{\gamma} + jets$	VBF Higgs	VV	VVV	W+Jets	$t\bar{t}$	tt+X
NRecoVertex	739384588.0	$261606677.1 \pm 5268.6$	$1903298.5 \pm 55.0$	$329697.4 \pm 15.5$	$1249399149538.2 \pm 6472079.8$	$11626747.7 \pm 243.3$	$3681750.7 \pm 476.6$	$649957.8 \pm 171.7$	$5387659.3 \pm 141.2$	$16557.0 \pm 6.8$	$2547180197.8 \pm 55452.1$	$31948106.4 \pm 571.1$	$82170.5 \pm 29.0$
NRecoTriggers1	480099871.0	$53587226.6 \pm 10208.8$	$422323.2 \pm 285.1$	$53329.6 \pm 79.3$	$54357395.5 \pm 752251.5$	$947644.9 \pm 320.0$	$899907.1 \pm 370.0$	$901.8 \pm 8.2$	$622692.3 \pm 290.8$	$2718.2 \pm 8.4$	$343755075.5 \pm 98720.3$	$4126838.6 \pm 609.4$	$12083.8 \pm 13.2$
NRecoMuon1	20054689.0	$21041238.5 \pm 6900.1$	$129.2 \pm 5.7$	$22198.7 \pm 57.8$	$25436.0 \pm 3306.6$	$15556.1 \pm 57.0$	$127929.7 \pm 149.2$	$77.6 \pm 0.3$	$39794.9 \pm 67.7$	$268.2 \pm 2.6$	$2680.4 \pm 178.4$	$147663.5 \pm 92.0$	$755.4 \pm 2.7$
NRecoMuon2	20054689.0	$21041238.5 \pm 6900.1$	$129.2 \pm 5.7$	$22198.7 \pm 57.8$	$25436.0 \pm 3306.6$	$15556.1 \pm 57.0$	$127929.7 \pm 149.2$	$77.6 \pm 0.3$	$39794.9 \pm 67.7$	$268.2 \pm 2.6$	$2680.4 \pm 178.4$	$147663.5 \pm 92.0$	$755.4 \pm 2.7$
NDiMuonCombinations	19391648.0	$20653554.8 \pm 6847.6$	$24.1 \pm 2.4$	$20900.6 \pm 56.4$	$330.4 \pm 277.9$	$5782.2 \pm 34.5$	$115956.3 \pm 142.2$	$68.4 \pm 0.2$	$28067.8 \pm 49.2$	$161.8 \pm 1.8$	$837.1 \pm 105.7$	$56406.5 \pm 57.0$	$333.9 \pm 1.5$
NRecoElectron1	19357721.0	$20618877.6 \pm 6842.7$	$23.9 \pm 2.4$	$20805.9 \pm 56.2$	$330.4 \pm 277.9$	$5737.3 \pm 34.4$	$112473.3 \pm 140.1$	$59.4 \pm 0.2$	$27496.5 \pm 48.5$	$156.0 \pm 1.8$	$833.5 \pm 105.7$	$55809.8 \pm 56.7$	$318.6 \pm 1.5$
NRecoTaul	19341803.0	$20618874.0 \pm 6842.7$	$23.9 \pm 2.4$	$20805.9 \pm 56.2$	$330.4 \pm 277.9$	$5735.0 \pm 34.3$	$112473.0 \pm 140.1$	$59.3 \pm 0.2$	$27447.6 \pm 48.5$	$155.1 \pm 1.8$	$833.5 \pm 105.7$	$55794.3 \pm 56.7$	$317.6 \pm 1.5$
METCut	19341803.0	$20618874.0 \pm 6842.7$	$23.9 \pm 2.4$	$20805.9 \pm 56.2$	$330.4 \pm 277.9$	$5735.0 \pm 34.3$	$112473.0 \pm 140.1$	$59.3 \pm 0.2$	$27447.6 \pm 48.5$	$155.1 \pm 1.8$	$833.5 \pm 105.7$	$55794.3 \pm 56.7$	$317.6 \pm 1.5$
NRecoJet1	19341803.0	$20618874.0 \pm 6842.7$	$23.9 \pm 2.4$	$20805.9 \pm 56.2$	$330.4 \pm 277.9$	$5735.0 \pm 34.3$	$112473.0 \pm 140.1$	$59.3 \pm 0.2$	$27447.6 \pm 48.5$	$155.1 \pm 1.8$	$833.5 \pm 105.7$	$55794.3 \pm 56.7$	$317.6 \pm 1.5$
NRecoJet2	19341803.0	$20618874.0 \pm 6842.7$	$23.9 \pm 2.4$	$20805.9 \pm 56.2$	$330.4 \pm 277.9$	$5735.0 \pm 34.3$	$112473.0 \pm 140.1$	$59.3 \pm 0.2$	$27447.6 \pm 48.5$	$155.1 \pm 1.8$	$833.5 \pm 105.7$	$55794.3 \pm 56.7$	$317.6 \pm 1.5$
NRecoBJet	19192178.0	$20509183.6 \pm 6831.5$	$21.5 \pm 2.3$	$20034.5 \pm 55.3$	$330.4 \pm 277.9$	$3236.6 \pm 25.3$	$112124.8 \pm 139.9$	$58.9 \pm 0.2$	$26690.1 \pm 48.2$	$146.2 \pm 1.8$	$815.7 \pm 105.6$	$20484.7 \pm 35.2$	$120.7 \pm 1.0$
NDiJetCombinations	19185160.0	$20502925.2 \pm 6831.3$	$21.5 \pm 2.3$	$19106.3 \pm 54.2$	$326.4 \pm 277.8$	$3223.0 \pm 25.3$	$111955.3 \pm 139.8$	$58.1 \pm 0.2$	$26589.0 \pm 48.1$	$143.8 \pm 1.8$	$814.3 \pm 105.6$	$20259.5 \pm 35.0$	$117.4 \pm 0.9$

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

$$SF^{CR3} = 0.93 \pm 0.004$$