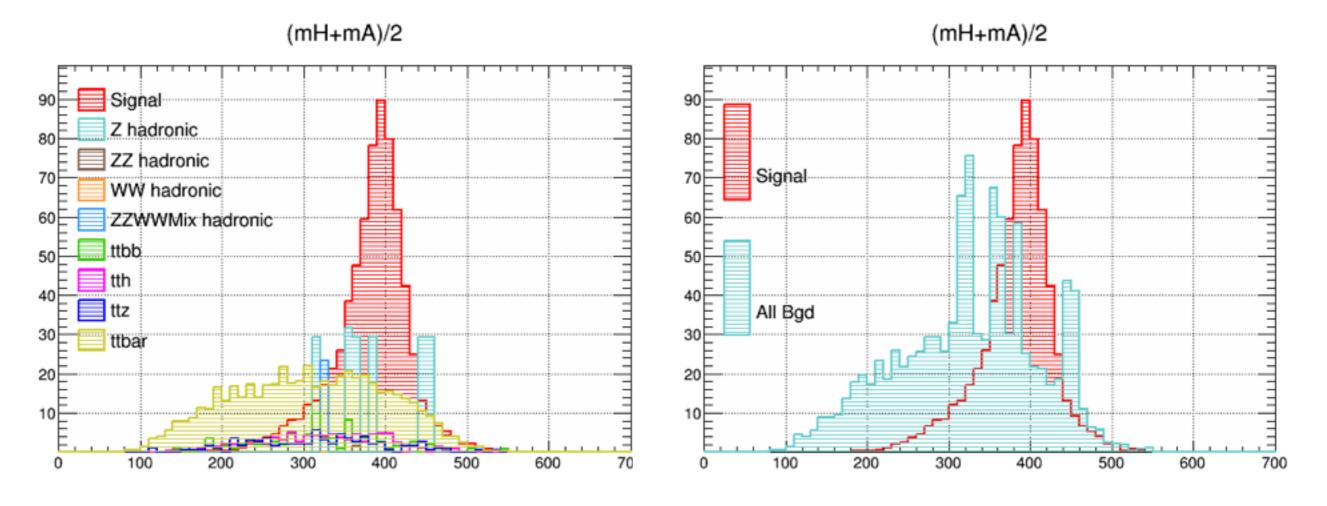
Abhinav Dubey: Tohoku University



Final selection: = 2386.33 Post 695.771 Eff 0.291565 Signal = 5.2708e+06 Post 183.188 Eff 3.47552e-05 Z ZZ = 167423 Post 48.2805 Eff 0.000288375 = 1.81203e+06 Post 0 Eff 0 WW ZZWWMix = 1.51065e+06 Post 23.2762 Eff 1.54081e-05 ttbb = 3290.41 Post 86.9047 Eff 0.0264115 = 3290.38 Post 87.0463 Eff 0.0264548 tth = 7745.81 Post 71.5202 Eff 0.00923341 ttz ttbar = 437667 Post 529.42 Eff 0.00120964All bgd = 9.21289e+06 Post 1029.64 Eff 0.00011176 Significance = 0.7862 Post 16.7502

Cut-flow: Z hadronic, ZZ/WW/ZZWWMix hadronic

Sample	Signal	Z	ZZ	WW	ZZWW
Cuts		hadronic	hadronic	hadronic	hadronic
Total	2386.33	5270800	167423	1812030	1510650
Cut1	2350.28	745221	29138.9	171006	145472
Eff %	98.49	14.14	17.40	9.44	9.63
Cut 2	1993.37	283567	10291.5	54032	46166.2
Eff %	83.53	5.38	6.15	2.98	3.06
Cut 3	1528.52	145172	5739.32	29381.9	25159.9
Eff %	78.69	2.75	3.43	1.62	1.66
Cut 4	1308.1	34183.2	2116.57	10692.3	9051.87
Eff %	54.82	0.65	1.26	0.59	0.60
BDT	697.21	183.19	48.28	0	23.28
Eff %	29.16	0.003	0.03	0	0.001

Cross-sections at 1 TeV

Cross-sections (fb)	eL.pR	eR.pL
Signal	2.27833	0.108
Z had	5062.662	208.134
ZZ had	162.806	4.61696
WW had	1811.6784	0.3517804
ZZWWMix had	1509.4836	1.1612

Scale factor for 1000 fb-1

Preliminary Cuts:

Cut 1 : Principal Thrust < 0.9

Cut 2 : Major Thrust > 0.3

Cut 3 : DPhi jet pairs > 1.0

Cut 4 : Transverse EVis > 250

Cut 5: BDT classifier > 0.3

Scale Factor	eL.pR	eR.pL
Signal	0.0912	0.0044
Z had	29.3002	2.4622
ZZ had	23.2779	1.7247
WW had	23.2759	1.7244
ZZWWMix had	23.2762	1.7254