

Index	BDT quantile	Max. muon $ \eta $	ggH [%]	VBF [%]	WH [%]	ZH [%]	ttH [%]	Signal	Bkg./GeV @125GeV	FWHM [GeV]	Bkg. functional fit form	S/\sqrt{B} @ FWHM
0	0 – 8%	$ \eta < 2.4$	4.9	1.3	3.3	6.3	31.9	21.2	3150.5	4.2	mBW $\cdot B_{deg4}$	0.12
1	8 – 39%	$1.9 < \eta < 2.4$	5.6	1.7	3.9	3.5	1.3	22.3	1327.5	7.3	mBW $\cdot B_{deg4}$	0.16
2	8 – 39%	$0.9 < \eta < 1.9$	10.3	2.8	6.5	6.4	5.2	41.1	2222.2	4.1	mBW $\cdot B_{deg4}$	0.29
3	8 – 39%	$ \eta < 0.9$	3.2	0.8	1.9	2.1	3.5	12.7	775.9	2.9	mBW $\cdot B_{deg4}$	0.17
4	39 – 61%	$1.9 < \eta < 2.4$	2.9	1.7	2.7	2.7	0.3	11.8	435.0	7.0	mBW $\cdot B_{deg4}$	0.14
5	39 – 61%	$0.9 < \eta < 1.9$	7.2	3.3	6.1	5.2	1.3	29.2	955.9	4.1	mBW $\cdot B_{deg4}$	0.31
6	39 – 61%	$ \eta < 0.9$	3.6	1.1	2.6	2.2	0.9	14.5	479.3	2.8	mBW $\cdot B_{deg4}$	0.26
7	61 – 76%	$1.9 < \eta < 2.4$	1.2	1.5	1.8	1.7	0.2	5.2	146.6	7.6	mBW $\cdot B_{deg4}$	0.11
8	61 – 76%	$0.9 < \eta < 1.9$	4.8	3.6	4.5	4.4	0.7	20.3	514.3	4.2	mBW $\cdot B_{deg4}$	0.29
9	61 – 76%	$ \eta < 0.9$	3.2	1.6	2.3	2.1	0.6	13.1	319.7	3.0	mBW	0.28
10	76 – 91%	$1.9 < \eta < 2.4$	1.2	3.1	2.2	2.1	0.2	5.8	102.4	7.2	Sum Exp(n=2)	0.14
11	76 – 91%	$0.9 < \eta < 1.9$	4.4	8.7	6.2	6.0	1.1	20.3	363.3	4.2	mBW	0.34
12	76 – 91%	$ \eta < 0.9$	3.1	4.0	3.8	3.6	0.9	13.7	230.0	3.2	mBW $\cdot B_{deg4}$	0.34
13	91 – 95%	$ \eta < 2.4$	1.7	6.4	2.5	2.6	0.5	8.6	95.5	4.0	mBW	0.28
14	95 – 100%	$ \eta < 2.4$	2.0	19.4	1.5	1.4	0.7	13.7	82.4	4.2	mBW	0.47
overall			59.1	61.1	51.8	52.3	49.2	253.3	12961.5	3.9		