

BDT response quantile [%]	Maximum muon $ \eta $	ggH [%]	VBF [%]	WH [%]	ZH [%]	t $\bar{t}$ H [%]	Signal	Bkg/GeV @125 GeV	FWHM [GeV]	Bkg fit function	$S/\sqrt{B}$ @ FWHM
0 – 8	$ \eta  < 2.4$	4.9	1.3	3.3	6.3	32	21.2	$3.13 \times 10^3$	4.2	mBW $B_{\text{deg } 4}$	0.12
8 – 39	$1.9 <  \eta  < 2.4$	5.6	1.7	3.9	3.5	1.3	22.3	$1.34 \times 10^3$	7.2	mBW $B_{\text{deg } 4}$	0.16
8 – 39	$0.9 <  \eta  < 1.9$	10	2.8	6.5	6.4	5.2	41.1	$2.24 \times 10^3$	4.1	mBW $B_{\text{deg } 4}$	0.29
8 – 39	$ \eta  < 0.9$	3.2	0.8	1.9	2.1	3.5	12.7	$7.83 \times 10^2$	2.9	mBW $B_{\text{deg } 4}$	0.18
39 – 61	$1.9 <  \eta  < 2.4$	2.9	1.7	2.7	2.7	0.3	11.8	$4.37 \times 10^2$	7.0	mBW $B_{\text{deg } 4}$	0.14
39 – 61	$0.9 <  \eta  < 1.9$	7.2	3.3	6.1	5.2	1.3	29.2	$9.70 \times 10^2$	4.0	mBW $B_{\text{deg } 4}$	0.31
39 – 61	$ \eta  < 0.9$	3.6	1.1	2.6	2.2	0.9	14.5	$4.81 \times 10^2$	2.8	mBW	0.26
61 – 76	$1.9 <  \eta  < 2.4$	1.2	1.5	1.8	1.7	0.2	5.2	$1.48 \times 10^2$	7.6	mBW $B_{\text{deg } 4}$	0.11
61 – 76	$0.9 <  \eta  < 1.9$	4.8	3.6	4.5	4.4	0.7	20.3	$5.12 \times 10^2$	4.2	mBW $B_{\text{deg } 4}$	0.29
61 – 76	$ \eta  < 0.9$	3.2	1.6	2.3	2.1	0.6	13.1	$3.22 \times 10^2$	3.0	mBW	0.28
76 – 91	$1.9 <  \eta  < 2.4$	1.2	3.1	2.2	2.1	0.2	5.8	$1.04 \times 10^2$	7.1	mBW $B_{\text{deg } 4}$	0.14
76 – 91	$0.9 <  \eta  < 1.9$	4.4	8.7	6.2	6.0	1.1	20.3	$3.60 \times 10^2$	4.2	mBW $B_{\text{deg } 4}$	0.35
76 – 91	$ \eta  < 0.9$	3.1	4.0	3.8	3.6	0.9	13.7	$2.36 \times 10^2$	3.2	mBW	0.34
91 – 95	$ \eta  < 2.4$	1.7	6.4	2.5	2.6	0.5	8.6	96.0	4.0	mBW	0.28
95 – 100	$ \eta  < 2.4$	2.0	19	1.5	1.4	0.7	13.7	83.4	4.1	mBW	0.48
0 – 100	$ \eta  < 2.4$	59	61	51	52	49	253	$1.30 \times 10^4$	3.9		