

Bin	Category	Ranges (GeV)			Total bkg.	Data	Post-fit Total bkg.	
7	Photon+Lepton ($\mu\gamma$)	$35 \leq p_T^\gamma < 200$	$120 \leq p_T^{\text{miss}} < 200$	$H_T < 100$	317 ± 50	309	320 ± 18	
8				$100 \leq H_T < 400$	470 ± 98	501	489 ± 31	
9				$H_T \geq 400$	100 ± 27	86	99 ± 7	
10			$200 \leq p_T^{\text{miss}} < 400$	$H_T < 100$	26.3 ± 5.3	33	30.7 ± 3.4	
11				$100 \leq H_T < 400$	61 ± 14	65	63 ± 5	
12				$H_T \geq 400$	45 ± 14	45	46 ± 4	
13			$p_T^{\text{miss}} \geq 400$	$H_T < 100$	1.2 ± 0.4	1	1.3 ± 0.4	
14				$100 \leq H_T < 400$	2.4 ± 1.1	1	2.1 ± 0.7	
15				$H_T \geq 400$	5.3 ± 2.0	5	5.4 ± 1.0	
16		$p_T^\gamma \geq 200$	$120 \leq p_T^{\text{miss}} < 200$	$H_T < 100$	6.3 ± 2.4	12	9.1 ± 1.6	
17				$100 \leq H_T < 400$	21.1 ± 7.2	24	23.3 ± 2.4	
18				$H_T \geq 400$	15.3 ± 4.8	20	17.3 ± 1.8	
19			$200 \leq p_T^{\text{miss}} < 400$	$H_T < 100$	4.8 ± 1.8	4	6.9 ± 1.1	
20				$100 \leq H_T < 400$	8.3 ± 3.2	13	9.1 ± 1.1	
21				$H_T \geq 400$	5.4 ± 2.0	7	6.3 ± 0.9	
22			$p_T^{\text{miss}} \geq 400$	$H_T < 100$	0.7 ± 0.4	1	1.3 ± 0.3	
23				$100 \leq H_T < 400$	0.6 ± 0.2	1	0.8 ± 0.2	
24				$H_T \geq 400$	0.5 ± 0.2	0	0.6 ± 0.1	
25		Photon+Lepton ($e\gamma$)	$35 \leq p_T^\gamma < 200$	$120 \leq p_T^{\text{miss}} < 200$	$H_T < 100$	166 ± 22	154	167 ± 11
26					$100 \leq H_T < 400$	261 ± 53	276	269 ± 18
27					$H_T \geq 400$	80 ± 21	67	79 ± 7
28				$200 \leq p_T^{\text{miss}} < 400$	$H_T < 100$	17.3 ± 3.2	32	21.2 ± 2.9
29					$100 \leq H_T < 400$	51 ± 12	46	51.1 ± 4.1
30					$H_T \geq 400$	28.8 ± 9.0	32	29.5 ± 2.9
31	$p_T^{\text{miss}} \geq 400$			$H_T < 100$	1.3 ± 0.5	1	1.5 ± 0.4	
32				$100 \leq H_T < 400$	1.2 ± 0.5	1	1.2 ± 0.4	
33				$H_T \geq 400$	2.8 ± 0.8	4	3.3 ± 0.6	
34	$p_T^\gamma \geq 200$		$120 \leq p_T^{\text{miss}} < 200$	$H_T < 100$	6.3 ± 2.1	10	8.3 ± 1.3	
35				$100 \leq H_T < 400$	21.8 ± 7.1	22	23.4 ± 2.4	
36				$H_T \geq 400$	11.7 ± 3.7	15	13.0 ± 1.4	
37			$200 \leq p_T^{\text{miss}} < 400$	$H_T < 100$	4.4 ± 1.6	7	5.9 ± 1.0	
38				$100 \leq H_T < 400$	8.9 ± 3.3	9	9.3 ± 1.2	
39				$H_T \geq 400$	5.1 ± 1.8	4	5.6 ± 0.7	
40			$p_T^{\text{miss}} \geq 400$	$H_T < 100$	0.4 ± 0.2	0	0.7 ± 0.2	
41				$100 \leq H_T < 400$	0.5 ± 0.2	1	0.7 ± 0.2	
42				$H_T \geq 400$	0.8 ± 0.5	3	1.1 ± 0.4	
43	Photon+ S_T^γ		$p_T^\gamma \geq 180$	$H_T^\gamma \leq 2000$	$600 \leq S_T^\gamma < 800$	261 ± 30	275	273 ± 22
44					$800 \leq S_T^\gamma < 1000$	97 ± 14	98	100 ± 9
45					$1000 \leq S_T^\gamma < 1300$	50.2 ± 8.0	59	53.8 ± 6.7
46					$S_T^\gamma \geq 1300$	16.9 ± 3.8	20	18.0 ± 3.1
47	Photon+ H_T^γ		$p_T^\gamma \geq 100$	$H_T^\gamma \geq 2000$	$350 \leq p_T^{\text{miss}} < 450$	5.7 ± 2.6	5	6.9 ± 2.2
48					$450 \leq p_T^{\text{miss}} < 600$	2.7 ± 0.9	10	4.1 ± 1.4
49		$p_T^{\text{miss}} \geq 600$			2.6 ± 1.0	4	3.1 ± 1.5	