

Bin	Category	Ranges (GeV)		Total bkg.	Data	Post-fit Total bkg.	
1	Diphoton	$p_T^\gamma \geq 40$	$110 \leq p_T^{\text{miss}} < 115$		114 ± 13	105	110 ± 9
2			$115 \leq p_T^{\text{miss}} < 130$		42.9 ± 7.2	39	41.6 ± 5.5
3			$130 \leq p_T^{\text{miss}} < 150$		27.3 ± 5.4	21	25.9 ± 3.6
4			$150 \leq p_T^{\text{miss}} < 185$		17.4 ± 3.9	21	18.0 ± 3.0
5			$185 \leq p_T^{\text{miss}} < 250$		10.2 ± 2.6	11	10.8 ± 2.0
6			$p_T^{\text{miss}} \geq 250$		5.3 ± 1.4	12	5.9 ± 1.4
7	Photon+Lepton ($\mu\gamma$)	$35 \leq p_T^\gamma < 200$	$120 \leq p_T^{\text{miss}} < 200$	$H_T < 100$	317 ± 50	309	318 ± 19
8				$100 \leq H_T < 400$	470 ± 98	501	490 ± 32
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	30.5 ± 3.1
11				$100 \leq H_T < 400$	61 ± 14	65	63 ± 5
12				$H_T \geq 400$	45 ± 14	45	46 ± 5
13		$p_T^{\text{miss}} \geq 400$	$H_T < 100$	1.2 ± 0.4	1	1.3 ± 0.3	
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 ± 1.1	
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	23.2 ± 2.5
18				$H_T \geq 400$	15.3 ± 4.8	20	17.2 ± 2.0
19			$200 \leq p_T^{\text{miss}} < 400$	$H_T < 100$	4.8 ± 1.8	4	6.9 ± 1.2
20				$100 \leq H_T < 400$	8.3 ± 3.2	13	9.0 ± 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	1.2 ± 0.3		
23		$100 \leq H_T < 400$	0.6 ± 0.2	1	0.8 ± 0.1		
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 ± 12
26				$100 \leq H_T < 400$	261 ± 53	276	271 ± 18
27				$H_T \geq 400$	80 ± 21	67	80 ± 7
28			$200 \leq p_T^{\text{miss}} < 400$	$H_T < 100$	17.3 ± 3.2	32	21.2 ± 2.7
29				$100 \leq H_T < 400$	51 ± 12	46	51 ± 4
30				$H_T \geq 400$	28.8 ± 9.0	32	29.6 ± 3.0
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 ± 1.4
35				$100 \leq H_T < 400$	21.8 ± 7.1	22	23.3 ± 2.4
36				$H_T \geq 400$	11.7 ± 3.7	15	13.0 ± 1.5
37			$200 \leq p_T^{\text{miss}} < 400$	$H_T < 100$	4.4 ± 1.6	7	5.8 ± 1.0
38				$100 \leq H_T < 400$	8.9 ± 3.3	9	9.2 ± 1.3
39	$H_T \geq 400$			5.1 ± 1.8	4	5.6 ± 0.8	
40	$p_T^{\text{miss}} \geq 400$	$H_T < 100$	0.4 ± 0.2	0	0.6 ± 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	$p_T^\gamma \geq 180$	$H_T^\gamma \leq 2000$	$600 \leq S_T^\gamma < 800$	260 ± 30	273	274 ± 22
44				$800 \leq S_T^\gamma < 1000$	96 ± 14	98	100 ± 9
45				$1000 \leq S_T^\gamma < 1300$	50.0 ± 7.9	59	53.8 ± 6.4
46				$S_T^\gamma \geq 1300$	16.8 ± 3.8	20	18 ± 3.5
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	4	6.5 ± 1.9
48				$450 \leq p_T^{\text{miss}} < 600$	2.7 ± 0.9	10	4.1 ± 1.2
49				$p_T^{\text{miss}} \geq 600$	2.5 ± 1.0	4	3.1 ± 1.5