

Category	SM processes					
SRA b veto	$p_T^{\text{miss}}$ [GeV]	50–100	100–150	150–230	230–300	>300
	DY+jets	$1253 \pm 41$	$153 \pm 16$	$22.0 \pm 4.9$	$0.9 \pm 0.8$	$2.9 \pm 3.0$
	Flavor-symmetric	$1.6 \pm 0.5$	$2.1 \pm 0.6$	$1.4 \pm 0.5$	$0.6 \pm 0.3$	$0.6 \pm 0.2$
	Z+ $\nu$	$6.4 \pm 1.2$	$4.9 \pm 0.9$	$5.3 \pm 1.0$	$2.7 \pm 0.5$	$6.2 \pm 1.2$
	Total background	$1261 \pm 41$	$160 \pm 16$	$28.8 \pm 5.0$	$4.2 \pm 1.0$	$9.6 \pm 3.2$
	Observed	1261	186	27	5	14
SRA b tag	$p_T^{\text{miss}}$ [GeV]	50–100	100–150	150–230	230–300	>300
	DY+jets	$602 \pm 28$	$99.9 \pm 9.3$	$12.3 \pm 2.6$	$2.2 \pm 1.6$	$1.1 \pm 1.0$
	Flavor-symmetric	$7.9 \pm 1.8$	$19.7 \pm 4.4$	$10.6 \pm 2.4$	$1.4 \pm 0.4$	$0.3 \pm 0.2$
	Z+ $\nu$	$5.8 \pm 0.9$	$8.1 \pm 1.2$	$8.4 \pm 1.2$	$2.8 \pm 0.5$	$2.6 \pm 0.6$
	Total background	$616 \pm 28$	$128 \pm 10$	$31.4 \pm 3.8$	$6.3 \pm 1.7$	$4.1 \pm 1.2$
	Observed	616	148	42	10	4
SRB b veto	$p_T^{\text{miss}}$ [GeV]	50–100	100–150	150–230	230–300	>300
	DY+jets	$696 \pm 31$	$103.6 \pm 7.1$	$11.2 \pm 2.1$	$0.6 \pm 0.6$	$1.0 \pm 0.9$
	Flavor-symmetric	$1.2 \pm 0.4$	$2.4 \pm 0.7$	$1.0_{-0.4}^{+0.3}$	$0.6 \pm 0.3$	$0.1_{-0.1}^{+0.2}$
	Z+ $\nu$	$2.6 \pm 0.5$	$2.3 \pm 0.4$	$3.5 \pm 0.6$	$0.9 \pm 0.2$	$1.9 \pm 0.4$
	Total background	$700 \pm 31$	$108.2 \pm 7.1$	$15.7 \pm 2.3$	$2.2 \pm 0.7$	$3.0 \pm 1.0$
	Observed	700	108	18	2	3
SRB b tag	$p_T^{\text{miss}}$ [GeV]	50–100	100–150	150–230	230–300	>300
	DY+jets	$215 \pm 16$	$48 \pm 16$	$10.7 \pm 3.8$	$1.9 \pm 1.3$	$0.4 \pm 0.5$
	Flavor-symmetric	$4.5_{-1.2}^{+1.1}$	$9.3 \pm 2.2$	$5.3 \pm 1.3$	$1.0_{-0.4}^{+0.3}$	$0.1_{-0.1}^{+0.2}$
	Z+ $\nu$	$6.0 \pm 1.1$	$7.9 \pm 1.4$	$6.6 \pm 1.2$	$2.4 \pm 0.4$	$1.6 \pm 0.3$
	Total background	$225 \pm 16$	$65 \pm 16$	$22.7 \pm 4.2$	$5.3 \pm 1.4$	$2.1 \pm 0.6$
	Observed	225	69	17	3	5
SRC b veto	$p_T^{\text{miss}}$ [GeV]	50–100	100–150	150–250	>250	
	DY+jets	$135 \pm 14$	$28.8 \pm 5.6$	$1.7 \pm 0.5$	$0.2 \pm 0.2$	
	Flavor-symmetric	$0.2 \pm 0.1$	$0.3 \pm 0.2$	$0.2 \pm 0.1$	$0.0_{-0.0}^{+0.1}$	
	Z+ $\nu$	$0.4 \pm 0.1$	$0.6 \pm 0.2$	$0.5 \pm 0.2$	$0.4 \pm 0.1$	
	Total background	$135 \pm 14$	$29.7 \pm 5.6$	$2.4 \pm 0.6$	$0.6 \pm 0.3$	
	Observed	135	19	5	1	
SRC b tag	$p_T^{\text{miss}}$ [GeV]	50–100	100–150	150–250	>250	
	DY+jets	$39.6 \pm 7.1$	$8.9 \pm 2.0$	$2.0 \pm 0.7$	$0.0 \pm 0.2$	
	Flavor-symmetric	$0.4 \pm 0.3$	$0.7 \pm 0.4$	$0.8 \pm 0.5$	$0.1 \pm 0.1$	
	Z+ $\nu$	$1.0 \pm 0.2$	$1.0 \pm 0.2$	$1.0 \pm 0.2$	$0.6 \pm 0.2$	
	Total background	$41.0 \pm 7.1$	$10.7 \pm 2.1$	$3.8 \pm 0.9$	$0.7 \pm 0.2$	
	Observed	41	14	5	1	