

Bin	Data	Bkg.	Signal for $(\sigma\mathcal{B})_{\text{sig}} = 5 \text{ pb}, m_{\phi_1} =$				
			4 GeV	5 GeV	6 GeV	7 GeV	8 GeV
(1,1)	124	$116 \pm 7$	$9.7 \pm 1.5$	$1.9 \pm 0.5$	$<0.1$	$0.1 \pm 0.1$	$<0.1$
(1,2)	231	$247 \pm 10$	$21.6 \pm 2.9$	$6.8 \pm 1.1$	$1.9 \pm 0.5$	$0.3 \pm 0.2$	$0.1 \pm 0.1$
(1,3)	91	$98 \pm 6$	$3.8 \pm 0.8$	$4.9 \pm 0.9$	$2.4 \pm 0.6$	$0.9 \pm 0.3$	$0.2 \pm 0.2$
(1,4)	64	$60 \pm 5$	$0.1 \pm 0.1$	$1.5 \pm 0.4$	$1.8 \pm 0.5$	$0.8 \pm 0.3$	$0.5 \pm 0.2$
(2,2)	137	$142 \pm 8$	$14.2 \pm 2.0$	$8.2 \pm 1.3$	$2.8 \pm 0.6$	$1.5 \pm 0.4$	$0.8 \pm 0.3$
(2,3)	112	$104 \pm 6$	$3.7 \pm 0.7$	$10.4 \pm 1.6$	$9.2 \pm 1.4$	$4.4 \pm 0.8$	$2.3 \pm 0.6$
(2,4)	61	$59 \pm 5$	$<0.1$	$2.6 \pm 0.6$	$5.6 \pm 1.0$	$8.1 \pm 1.3$	$4.0 \pm 0.8$
(3,3)	16	$19 \pm 2$	$<0.1$	$4.8 \pm 0.9$	$4.8 \pm 0.9$	$3.7 \pm 0.7$	$2.2 \pm 0.5$
(3,4)	29	$23 \pm 3$	$<0.1$	$1.9 \pm 0.5$	$8.0 \pm 0.9$	$11.1 \pm 1.5$	$9.4 \pm 1.4$
(4,4)	8	$7 \pm 1$	$<0.1$	$<0.1$	$3.1 \pm 0.6$	$9.1 \pm 1.4$	$11.2 \pm 1.7$