

Table 1: **SCENARIO 02**

300 fb ⁻¹				
Mediator Mass [GeV]	$[-k, +k]$	k_{step}	$[-\tilde{k}, +\tilde{k}]$	\tilde{k}_{step}
0.01	$[-0.3025, 0.3025]$	0.0050	$[-2.01, +2.01]$	0.02
1	$[-0.3025, 0.3025]$	0.0050	$[-2.01, +2.01]$	0.02
10	$[-0.3025, 0.3025]$	0.0050	$[-2.01, +2.01]$	0.02
100	$[-2.01, +2.01]$	0.0250	$[-4.01, +4.01]$	0.04
125	$[-2.01, +2.01]$	0.0250	$[-4.01, +4.01]$	0.04
3000 fb ⁻¹				
Mediator Mass [GeV]	$[-k, +k]$	k_{step}	$[-\tilde{k}, +\tilde{k}]$	\tilde{k}_{step}
0.01	$[-0.5075, 0.5075]$	0.0050	$[-1.25, +1.25]$	0.0150
1	$[-0.5075, 0.5075]$	0.0050	$[-1.25, +1.25]$	0.0150
10	$[-0.5075, 0.5075]$	0.0050	$[-1.25, +1.25]$	0.0150
100	$[-1.5075, 1.5075]$	0.0150	$[-2.25, +2.25]$	0.0250
125	$[-1.5075, 1.5075]$	0.0150	$[-2.25, +2.25]$	0.0250

Table 2: **SCENARIO 12**

300 fb ⁻¹				
Mediator Mass [GeV]	$[-k, +k]$	k_{step}	$[-\tilde{k}, +\tilde{k}]$	\tilde{k}_{step}
0.01	$[0.8990, 1.1010]$	0.0020	$[-4.02, +4.02]$	0.04
1	$[0.8990, 1.1010]$	0.0020	$[-4.02, +4.02]$	0.04
10	$[0.8490, 1.1010]$	0.0020	$[-4.02, +4.02]$	0.04
100	$[-2.02, +2.02]$	0.0250	$[-4.02, +4.02]$	0.04
125	$[-2.75, +2.75]$	0.0250	$[-4.02, +4.02]$	0.04
3000 fb ⁻¹				
Mediator Mass [GeV]	$[-k, +k]$	k_{step}	$[-\tilde{k}, +\tilde{k}]$	\tilde{k}_{step}
0.01	$[0.8990, 1.1010]$	0.0020	$[-4.02, +4.02]$	0.04
1	$[0.8990, 1.1010]$	0.0020	$[-4.02, +4.02]$	0.04
10	$[0.8490, 1.1010]$	0.0020	$[-4.02, +4.02]$	0.04
100	$[-1.50, +1.50]$	0.02	$[-4.02, +4.02]$	0.04
125	$[-1.50, +1.50]$	0.02	$[-4.02, +4.02]$	0.04