

Background or signal	SRnoZa	SRnoZb	SRnoZc	SRZa	SRZb	SRZc
ZZ events	410	59	10	280	39	12
ZW^\pm events	1391	595	71	6850	661	189
$t\bar{t}$ events	1715	401	62	272	178	19
All background events	3516	1055	143	7402	878	220
BP1 signal events	12	37	19	191	134	130
BP3 signal events	43	76	18	498	183	88

Table 1: The number of background and signal events at the 14 TeV LHC for $\mathcal{L} = 300 \text{ fb}^{-1}$ in each of the signal regions of the ATLAS 3ℓ search.

	BP3	$W\gamma^*$	$Z\gamma^*$	$Wb\bar{b}$
Cross section (fb)	3.16	246.9	10.0	3770.0
Cut efficiency	0.040	5.3×10^{-5}	3×10^{-5}	1×10^{-6}
Effective cross section (fb)	0.126	0.013	0.0003	0.003
No. of events	38	3.9	0.09	0.9

Table 2: The backgrounds and the signal for the BP3 in the μ_{col} search channel at the 14 TeV LHC for $\mathcal{L} = 300 \text{ fb}^{-1}$.

Point	S/B in analysis		$\mathcal{Z}(\sigma)$ in analysis	
	3ℓ (SRZc region)	μ_{col}	3ℓ (SRZc region)	μ_{col}
BP1	0.591	0.42	2.7	1.2
BP3	0.40	7.75	1.8	15.6

Table 3: Results in the two analyses methods for the benchmark points.