Search for squarks and gluinos in final states with jets and missing transverse momentum using 36 fb¹ of $\sqrt{s} = 13$ TeV pp collision data with the ATLAS detector,

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1 Validation

Processes:

- $pp \to \tilde{g}\tilde{g} \to jjjj\tilde{\chi}_1^0\tilde{\chi}_1^0$ $m_g = 2000$ GeV, $m_{\tilde{\chi}_1^0} = 0$ GeV, squarks decoupled Events generated with MG5_aMC 2.6.0 interfaced to Pythia8 with up to two extra partons (CKKW-L). 10000 MC events weighted to $36.1/{\rm fb}$.
- $pp \rightarrow \tilde{q}\tilde{q} \rightarrow jj\tilde{\chi}_1^0\tilde{\chi}_1^0$ $m_g = 1200~{\rm GeV},~m_{\tilde{\chi}_1^0} = 600~{\rm GeV},~{\rm gluinos~decoupled}$ Events generated with MG5_aMC 2.6.0 interfaced to Pythia8 with up to two extra partons (CKKW-L). $10000~{\rm MC}$ events weighted to $36.1/{\rm fb}$.
- $pp \rightarrow \tilde{q}\tilde{q} \rightarrow jj\tilde{\chi}_1^0\tilde{\chi}_1^0$ $m_g = 1500$ GeV, $m_{\tilde{\chi}_1^0} = 0$ GeV, gluinos decoupled Events generated with MG5_aMC 2.6.0 interfaced to Pythia8 with up to two extra partons (CKKW-L). 10000 MC events weighted to 36.1/fb.

	Selection	$m_{\tilde{g}} = 2000 \text{ GeV}$ $m_{\tilde{\chi}_1^0} = 0 \text{ GeV}$		$m_{\tilde{q}} = 1200 \text{ GeV}$ $m_{\tilde{\chi}_1^0} = 600 \text{ GeV}$		$\begin{array}{c c} m_{\tilde{q}} = 1500 \text{ GeV} \\ m_{\tilde{\chi}_1^0} = 0 \text{ GeV} \end{array}$	
		ATLAS	CM	ATLAS	CM	ATLAS	CM
Common	Preselection, $E_{\rm T}^{\rm miss} > 250 \text{ GeV}$,			<u> </u>		<u> </u>	
Requirements	$p_T(j_1) > 200 \text{ GeV}, m_{\text{eff}} > 800 \text{ GeV}$	31.6	31.7	376	376	68.4	67.2
redmiements	$p_T(j_1) > 200 \text{ GeV}, m_{\text{eff}} > 600 \text{ GeV}$ jet multiplicity ≥ 2	31.6	$\frac{31.7}{31.7}$	373	$370 \\ 372$	67.9	
					- -		
	Cleaning cuts	31.1	_	365		66.4	
SR2j-1200	$\Delta \phi(j_{1,2,(3)}, E_{\mathrm{T}}^{\mathrm{miss}}) > 0.8$ $\Delta \phi(j_{i>3}, E_{\mathrm{T}}^{\mathrm{miss}}) > 0.4$	19.0	19.4	293	296	51.8	
	$\Delta\phi(j_{i>3}, E_{\rm T}^{\rm miss}) > 0.4$	14.3	14.9	279	279	48.9	
	$p_T(j_2) > 250 \text{ GeV}$	14.1	14.8	180	187	42.4	41.3
	$ \eta(j_{1,2}) < 0.8$	7.51	8.11	83.7	85.1	18.9	.4 - .8 51.2 .9 47.6 .4 41.3 .9 18.8 .7 15.6 .7 15.5 .8 51.2 .9 47.6 .9 38.3 .1 29.4 .6 20.6 .4 20.5 .8 51.2 .9 47.6 .9 34.7 .9 27.3 .8 18.9 .5 7.2 .9 47.6 .9 34.7 .9 27.3 .8 18.9 .3 15.2 .8 51.2
	$E_{\rm T}^{\rm miss} / \sqrt{H_T} > 14 \; {\rm GeV}^{1/2}$	5.13	5.16	60.5	59.5	15.7	15.6
	$m_{\rm eff}({\rm incl.}) > 1200~{\rm GeV}$	5.13	5.16	59.0	58.0	15.7	15.5
SR2j-1600	$\Delta \phi(j_{1,2,(3)}, E_{\rm T}^{\rm miss}) > 0.8$	19.0	19.4	293	296	51.8	51.2
51025 1000	$\Delta \phi(j_{1,2,(3)}, E_{\rm T}^{-}) > 0.0$ $\Delta \phi(j_{i>3}, E_{\rm T}^{\rm miss}) > 0.4$	14.3	14.9	279	$\frac{250}{279}$	48.9	
	$p_T(j_2) > 300 \text{ GeV}$	13.8	14.6	138	144	38.9	
	1 - (0 -)	11.4	12.3	109	1144	29.1	
	$ \eta(j_{1,2}) < 1.2 \ E_{ m T}^{ m miss}/\sqrt{H_T} > 18~{ m GeV^{1/2}}$						
		5.74	5.68	55.8	55.1	20.6	
	$m_{\text{eff}}(\text{incl.}) > 1600 \text{ GeV}$	5.74	5.68	45.4	44.8	20.4	
SR2j-2000	$\Delta \phi(j_{1,2,(3)}, E_{\rm T}^{\rm miss}) > 0.8$	19.0	19.4	293	296	51.8	
	$\Delta\phi(j_{i>3}, E_{\mathrm{T}}^{\mathrm{miss}}) > 0.4$	14.3	14.9	279	279	48.9	47.6
	$p_T(j_2) > 350 \text{ GeV}$	13.2	14.1	99.7	106	34.9	34.7
	$ \eta(j_{1,2}) < 1.2$	11.1	12.0	81.7	87.1	26.9	27.3
	$E_{\rm T}^{\rm miss} / \sqrt{H_T} > 18 \ {\rm GeV}^{1/2}$	5.54	5.45	38.1	37.5	18.8	18.9
	$m_{\rm eff}({\rm incl.}) > 2000 {\rm GeV}$	5.54	5.44	16.7	14.8	17.6	18.0
SR2j-2100	$\Delta \phi(j_{1,2,(3)}, E_{\rm T}^{\rm miss}) > 0.4$	25.2	25.8	331	337	59.5	50.1
51t2j-2100	$\Delta \phi(j_{1,2,(3)}, E_{\mathrm{T}}) > 0.4$ $\Delta \phi(j_{i>3}, E_{\mathrm{T}}^{\mathrm{miss}}) > 0.2$	22.0	$\frac{20.6}{22.6}$	322	326	57.7	
	$p_T(j_1) > 600 \text{ GeV}$	19.8	$\frac{22.6}{20.6}$	106	$\frac{320}{122}$	45.5	
	$E_{ m T}^{ m miss}/\sqrt{H_T} > 26~{ m GeV}^{1/2}$	3.48	$\frac{20.0}{2.94}$	22.3	$\frac{122}{20.1}$	$\frac{40.5}{20.7}$	
	$m_{\rm eff}({\rm incl.}) > 2100~{\rm GeV}$	3.45	$\frac{2.94}{2.94}$	9.30	9.25	19.2	
SR2j-2400	$\Delta \phi(j_{1,2,(3)}, E_{\rm T}^{\rm miss}) > 0.8$	19.0	19.4	293	296	51.8	
	$\Delta \phi(j_{i>3}, E_{\mathrm{T}}^{\mathrm{miss}}) > 0.4$	14.3	14.9	279	279	48.9	
	$p_T(j_2) > 350 \text{ GeV}$	13.2	14.1	99.7	106	34.9	
	$ \eta(j_{1,2}) \le 1.2$	11.1	12.0	81.7	87.1	26.9	
	$E_{\rm T}^{\rm miss}/\sqrt{H_T} > 18 \ {\rm GeV^{1/2}}$	5.54	5.45	38.1	37.5	18.8	
	$m_{\text{eff}}(\text{incl.}) > 2400 \text{ GeV}$	5.44	5.34	6.22	5.59	14.3	15.2
SR2j-2800	$\Delta \phi(j_{1,2,(3)}, E_{\rm T}^{\rm miss}) > 0.8$ $\Delta \phi(j_{i>3}, E_{\rm T}^{\rm miss}) > 0.4$	19.0	19.4	293	296	51.8	18.8 15.6 15.5 51.2 47.6 38.3 29.4 20.6 20.5 51.2 47.6 34.7 27.3 18.9 18.1 51.2 47.6 34.7 27.3 18.9 15.2 47.6 34.7 27.3 18.9 10.0 51.2 47.6 34.7 24.0 2.06 2.31 2.19 1.23
	$\Delta \phi(j_{i>3}, E_{\rm T}^{\rm miss}) > 0.4$	14.3	14.9	279	279	48.9	47.6
	$p_T(j_2) > 350 \text{ GeV}$	13.2	14.1	99.7	106	34.9	34.7
	$ \eta(j_{1,2}) < 1.2$	11.1	12.0	81.7	87.1	26.9	
	$E_{\rm T}^{\rm mis}/\sqrt{H_T} > 18 {\rm ~GeV^{1/2}}$	5.54	5.45	38.1	37.5	18.8	
	$m_{\text{eff}}(\text{incl.}) > 2800 \text{ GeV}$	4.94	4.80	2.23	1.94	9.22	
SR2j-3600	$\Delta \phi(i) = F_{\text{miss}} > 0.8$	19.0	19.4	293	296	51.8	51.9
51t2j-5000	$\Delta \phi(j_{1,2,(3)}, E_{\mathrm{T}}^{\mathrm{miss}}) > 0.8$ $\Delta \phi(j_{i>3}, E_{\mathrm{T}}^{\mathrm{miss}}) > 0.4$	14.3	$19.4 \\ 14.9$	279	$\frac{290}{279}$	48.9	
	$\Delta \phi(j_{i>3}, E_{\rm T}) > 0.4$ $p_T(j_2) > 350 \text{ GeV}$	13.2	14.9 14.1	99.7	106	34.9	
	$p_T(J_2) > 550 \text{ GeV}$ $E_T^{\text{miss}} / \sqrt{H_T} > 18 \text{ GeV}^{1/2}$				45.1		
		6.70	6.37	46.2		24.3	
	$m_{\text{eff}}(\text{incl.}) > 2800 \text{ GeV}$	2.60	2.78	0.35	0.43	2.09	
SR2jB-1600	$\Delta \phi(j_{1,2,(3)}, E_{\rm T}^{\rm miss}) > 0.6$	0.308	0.629	7.04	5.09	1.21	
	$\Delta\phi(j_{i>3}, E_{\mathrm{T}}^{\mathrm{miss}}) > 0.4$	0.232	0.502	6.72	4.91	1.18	
	$E_{\rm T}^{\rm miss} / \sqrt{H_T} > 20 \ {\rm GeV}^{1/2}$	0.102	0.160	2.97	1.41	0.716	
	$m_{\rm eff}({\rm incl.}) > 1600 {\rm ~GeV}$	0.099	0.156	1.77	1.00	0.679	1.22
SR2jB-2400	$\Delta\phi(j_{1,2,(3)}, E_{\rm T}^{\rm miss}) > 0.6$	0.308	0.629	7.04	5.09	1.21	2.31
2100	$\Delta \phi(j_{1,2,(3)}, E_{\rm T}^{\rm miss}) > 0.4$	0.232	0.502	6.72	4.91	1.18	2.19
	1 (J1/J1 — T / / VII						
	$E_{\rm T}^{\rm miss} / \sqrt{H_T} > 20 \; {\rm GeV}^{1/2}$	0.102	0.160	2.97	1.41	0.716	1.23

	Selection	$\begin{array}{ c c } \hline m_{\tilde{g}} = 2000 \text{ GeV} \\ m_{\tilde{\chi}_1^0} = 0 \text{ GeV} \end{array}$		$m_{\tilde{q}} = 1200 \text{ GeV}$ $m_{\tilde{\chi}_1^0} = 600 \text{ GeV}$		$\begin{array}{ c c c c c }\hline m_{\tilde{q}} = 1500 \text{ GeV}\\ m_{\tilde{\chi}_1^0} = 0 \text{ GeV}\\ \end{array}$	
		ATLAS	CM	ATLAS	CM	ATLAS	CM
Common Requirements		31.6 31.6 31.1	31.7 31.7 —	376 373 365	376 372 –	68.4 67.9 66.4	67.2 66.6 –
SR3j-1300	$ \begin{array}{l} \text{ jet multiplicity } \geq 3 \\ \Delta\phi(j_{1,2,(3)}, E_{\mathrm{T}}^{\mathrm{miss}}) > 0.4 \\ \Delta\phi(j_{i>3}, E_{\mathrm{T}}^{\mathrm{miss}}) > 0.2 \\ p_{T}(j_{1}) > 700 \text{ GeV} \\ E_{\mathrm{T}}^{\mathrm{miss}}/\sqrt{H_{T}} > 18 \text{ GeV}^{1/2} \\ m_{\mathrm{eff}}(\mathrm{incl.}) > 1300 \text{ GeV} \end{array} $	31.0 25.1 21.9 17.4 7.65 7.65	31.6 25.8 22.6 18.5 8.82 8.82	262 231 222 40.2 20.3 20.3	271 239 229 47.3 27.0 27.0	50.1 44.0 42.2 26.5 18.1 18.1	50.8 44.0 41.7 28.2 21.3 21.3
SR4j-1000	$ \begin{array}{l} \text{ jet multiplicity } \geq 4 \\ \Delta\phi(j_{1,2,(3)}, E_{\mathrm{T}}^{\mathrm{miss}}) > 0.4 \\ \Delta\phi(j_{i>3}, E_{\mathrm{T}}^{\mathrm{miss}}) > 0.4 \\ p_{T}(j_{4}) > 100 \text{ GeV} \\ \eta(j_{1,2,3,4}) < 1.2 \\ \text{Aplanarity } > 0.04 \\ E_{\mathrm{T}}^{\mathrm{miss}}/m_{\mathrm{eff}}(4j) > 0.3 \\ m_{\mathrm{eff}}(\mathrm{incl.}) > 1000 \text{ GeV} \end{array} $	29.8 24.1 18.2 16.3 7.95 5.52 2.02 2.02	30.4 24.8 18.7 16.9 8.04 5.61 1.63 1.63	134 119 102 39.2 12.5 8.39 5.13 5.13	150 133 113 41.7 11.4 8.05 4.72 4.72	28.2 24.9 21.5 9.84 2.95 1.52 0.964 0.964	30.6 26.6 22.2 9.92 3.24 1.70 1.15 1.15
SR4j-1400	$ \begin{array}{ c c c } & \text{jet multiplicity} \geq 4 \\ & \Delta\phi(j_{1,2,(3)}, E_{\mathrm{T}}^{\mathrm{miss}}) > 0.4 \\ & \Delta\phi(j_{i>3}, E_{\mathrm{T}}^{\mathrm{miss}}) > 0.4 \\ & p_{T}(j_{4}) > 100 \text{ GeV} \\ & \eta(j_{1,2,3,4}) < 2.0 \\ & \text{Aplanarity} > 0.04 \\ & E_{\mathrm{T}}^{\mathrm{miss}}/m_{\mathrm{eff}}(4j) > 0.25 \\ & m_{\mathrm{eff}}(\mathrm{incl.}) > 1400 \text{ GeV} \end{array} $	29.8 24.1 18.2 16.3 14.9 10.1 5.73 5.73	30.4 24.8 18.7 16.9 15.2 10.5 5.27 5.27	134 119 102 39.2 30.6 19.5 15.4 13.9	150 133 113 41.7 31.4 20.3 16.7 15.0	28.2 24.9 21.5 9.84 7.79 4.00 3.25 3.23	30.6 26.6 22.2 9.92 7.84 3.98 3.28 3.27
SR4j-1800	$ \begin{vmatrix} \text{jet multiplicity} \ge 4 \\ \Delta\phi(j_{1,2,(3)}, E_{\mathrm{T}}^{\mathrm{miss}}) > 0.4 \\ \Delta\phi(j_{i>3}, E_{\mathrm{T}}^{\mathrm{miss}}) > 0.4 \\ p_{T}(j_{4}) > 100 \text{ GeV} \\ \eta(j_{1,2,3,4}) < 2.0 \\ \text{Aplanarity} > 0.04 \\ E_{\mathrm{T}}^{\mathrm{miss}}/m_{\mathrm{eff}}(4j) > 0.25 \\ m_{\mathrm{eff}}(\mathrm{incl.}) > 1400 \text{ GeV} \end{vmatrix} $	29.8 24.1 18.2 16.3 14.9 10.1 5.73 5.69	30.4 24.8 18.7 16.9 15.2 10.5 5.27 5.24	134 119 102 39.2 30.6 19.5 15.4 9.17	150 133 113 41.7 31.4 20.3 16.7 10.5	28.2 24.9 21.5 9.84 7.79 4.00 3.25 3.03	30.6 26.6 22.2 9.92 7.84 3.98 3.28 3.10
SR4j-2200	$ \begin{vmatrix} \text{jet multiplicity} \ge 4 \\ \Delta\phi(j_{1,2,(3)}, E_{\mathrm{T}}^{\mathrm{miss}}) > 0.4 \\ \Delta\phi(j_{i>3}, E_{\mathrm{T}}^{\mathrm{miss}}) > 0.4 \\ p_{T}(j_{4}) > 100 \text{ GeV} \\ \eta(j_{1,2,3,4}) < 2.0 \\ \text{Aplanarity} > 0.04 \\ E_{\mathrm{T}}^{\mathrm{miss}}/m_{\mathrm{eff}}(4j) > 0.25 \\ m_{\mathrm{eff}}(\mathrm{incl.}) > 2200 \text{ GeV} \end{vmatrix} $	29.8 24.1 18.2 16.3 14.9 10.1 5.73 5.55	30.4 24.8 18.7 16.9 15.2 10.5 5.27 5.10	134 119 102 39.2 30.6 19.5 15.4 4.37	150 133 113 41.7 31.4 20.3 16.7 4.84	28.2 24.9 21.5 9.84 7.79 4.00 3.25 2.60	30.6 26.6 22.2 9.92 7.84 3.98 3.28 2.63
SR4j-2600	$ \begin{array}{ c c c } & \text{jet multiplicity} \geq 4 \\ & \Delta\phi(j_{1,2,(3)}, E_{\mathrm{T}}^{\mathrm{miss}}) > 0.4 \\ & \Delta\phi(j_{i>3}, E_{\mathrm{T}}^{\mathrm{miss}}) > 0.4 \\ & p_{T}(j_{4}) > 150 \text{ GeV} \\ & \eta(j_{1,2,3,4}) < 2.0 \\ & \text{Aplanarity} > 0.04 \\ & E_{\mathrm{T}}^{\mathrm{miss}}/m_{\mathrm{eff}}(4j) > 0.2 \\ & m_{\mathrm{eff}}(\mathrm{incl.}) > 2600 \text{ GeV} \end{array} $	29.8 24.1 18.2 13.9 13.1 9.21 6.64 6.00	30.4 24.8 18.7 14.3 13.2 9.44 6.38 5.81	134 119 102 15.4 12.8 8.93 7.92 1.74	150 133 113 15.5 12.7 8.96 7.89 1.71	28.2 24.9 21.5 4.70 3.97 2.43 2.16 1.46	30.6 26.6 22.2 4.37 3.64 2.21 1.97 1.40

	Selection	$\begin{array}{c c} m_{\tilde{g}} = 2000 \text{ GeV} \\ m_{\tilde{\chi}_1^0} = 0 \text{ GeV} \end{array}$		$m_{\tilde{q}} = 1200 \text{ GeV}$ $m_{\tilde{\chi}_1^0} = 600 \text{ GeV}$		$\begin{array}{ c c c c c c }\hline m_{\tilde{q}} = 1500 \text{ GeV} \\ m_{\tilde{\chi}_1^0} = 0 \text{ GeV} \\ \end{array}$	
		ATLAS	CM	ATLAS	CM	ATLAS	CM
Common Requirements		31.6 31.6 31.1	31.7 31.7 -	376 373 365	376 372 –	68.4 67.9 66.4	67.2 66.6
SR4j-3000	$ \begin{array}{ c c } \text{jet multiplicity} \geq 4 \\ \Delta\phi(j_{1,2,(3)}, E_{\mathrm{T}}^{\mathrm{miss}}) > 0.4 \\ \Delta\phi(j_{i>3}, E_{\mathrm{T}}^{\mathrm{miss}}) > 0.4 \\ p_{T}(j_{4}) > 150 \text{ GeV} \\ \eta(j_{1,2,3,4}) < 2.0 \\ \text{Aplanarity} > 0.04 \\ E_{\mathrm{T}}^{\mathrm{miss}}/m_{\mathrm{eff}}(4j) > 0.2 \\ m_{\mathrm{eff}}(\mathrm{incl.}) > 3000 \text{ GeV} \end{array} $	29.8 24.1 18.2 13.9 13.1 9.21 6.64 5.01	30.4 24.8 18.7 14.3 13.2 9.44 6.38 4.83	134 119 102 15.4 12.8 8.93 7.92 0.489	150 133 113 15.5 12.7 8.96 7.89 0.493	28.2 24.9 21.5 4.70 3.97 2.43 2.16 0.942	30.6 26.6 22.2 4.37 3.64 2.21 1.97 0.789
SR5j-1600	$ \text{ jet multiplicity } \geq 5 $ $ \Delta\phi(j_{1,2,(3)}, E_{\mathrm{T}}^{\mathrm{miss}}) > 0.4 $ $ \Delta\phi(j_{i>3}, E_{\mathrm{T}}^{\mathrm{miss}}) > 0.2 $ $ \mathrm{Aplanarity} > 0.08 $ $ E_{\mathrm{T}}^{\mathrm{miss}}/m_{\mathrm{eff}}(5j) > 0.15 $ $ m_{\mathrm{eff}}(\mathrm{incl.}) > 1600 \ \mathrm{GeV} $	22.5 18.2 15.4 6.35 5.49 5.47	23.3 19.0 16.1 6.61 5.49 4.47	53.3 47.1 42.1 12.7 12.4 9.30	67.6 59.1 52.3 16.4 16.1 11.6	12.5 11.0 9.85 2.67 2.59 2.45	14.5 12.7 10.9 2.70 2.63 2.52
SR5j-1700		22.5 18.2 15.4 12.0 3.56 3.56	23.3 19.0 16.1 12.9 3.54 3.54	53.3 47.1 42.1 7.40 3.27 3.25	67.6 59.1 52.3 9.34 4.49 4.49	12.5 11.0 9.85 5.48 3.31 3.30	14.5 12.7 10.9 6.78 4.20 4.20
SR6j-1200	$ \begin{array}{ c c } \text{jet multiplicity} \geq 6 \\ \Delta\phi(j_{1,2,(3)}, E_{\mathrm{T}}^{\mathrm{miss}}) > 0.4 \\ \Delta\phi(j_{i>3}, E_{\mathrm{T}}^{\mathrm{miss}}) > 0.2 \\ \eta(j_{1,2,3,4,5,6}) < 2.0 \\ E_{\mathrm{T}}^{\mathrm{miss}}/m_{\mathrm{eff}}(6j) > 0.25 \\ m_{\mathrm{eff}}(\mathrm{incl.}) > 1200 \text{ GeV} \end{array} $	13.3 10.8 8.73 6.66 3.02 3.02	14.2 11.6 9.46 6.97 2.88 2.88	17.9 15.6 13.1 7.34 5.21 5.08	26.0 22.9 19.1 11.3 8.12 7.95	4.81 4.24 3.68 2.27 1.68 1.68	6.07 5.34 4.41 2.65 1.97 1.97
SR6j-1800	$ \begin{array}{ c c c } & \text{jet multiplicity} \geq 6 \\ & \Delta\phi(j_{1,2,(3)}, E_{\mathrm{T}}^{\mathrm{miss}}) > 0.4 \\ & \Delta\phi(j_{i>3}, E_{\mathrm{T}}^{\mathrm{miss}}) > 0.2 \\ & p_T(j_6) > 100 \text{ GeV} \\ & \eta(j_{1,2,3,4}) < 2.0 \\ & \text{Aplanarity} > 0.04 \\ & E_{\mathrm{T}}^{\mathrm{miss}}/m_{\mathrm{eff}}(6j) > 0.2 \\ & m_{\mathrm{eff}}(\mathrm{incl.}) > 1800 \text{ GeV} \end{array} $	13.3 10.8 8.73 3.45 2.81 2.32 1.33 1.32	14.2 11.6 9.46 3.83 3.02 2.51 1.42 1.42	17.9 15.6 13.1 1.65 1.07 0.916 0.652 0.513	26.0 22.9 19.1 1.73 1.12 0.996 0.804 0.745	4.81 4.24 3.68 0.487 0.341 0.261 0.226 0.219	6.07 5.34 4.41 0.614 0.383 0.347 0.311 0.302
SR6j-2200		13.3 10.8 8.73 3.45 1.74 1.05 1.04	14.2 11.6 9.46 3.83 2.07 1.23 1.23	17.9 15.6 13.1 1.65 0.921 0.674 0.366	26.0 22.9 19.1 1.73 0.946 0.741 0.448	4.81 4.24 3.68 0.487 0.215 0.190 0.167	6.07 5.34 4.41 0.614 0.248 0.229 0.202
SR6j-2600	$ \begin{vmatrix} \text{jet multiplicity} \ge 6 \\ \Delta\phi(j_{1,2,(3)}, E_{\mathrm{T}}^{\mathrm{miss}}) > 0.4 \\ \Delta\phi(j_{i>3}, E_{\mathrm{T}}^{\mathrm{miss}}) > 0.2 \\ p_T(j_6) > 100 \text{ GeV} \\ \text{Aplanarity} > 0.08 \\ E_{\mathrm{T}}^{\mathrm{miss}}/m_{\mathrm{eff}}(6j) > 0.15 \\ m_{\mathrm{eff}}(\mathrm{incl.}) > 2600 \text{ GeV} \end{vmatrix} $	13.3 10.8 8.73 3.45 1.74 1.39 1.29	14.2 11.6 9.46 3.83 2.07 1.64 1.58	17.9 15.6 13.1 1.65 0.921 0.891 0.373	26.0 22.9 19.1 1.73 0.946 0.875 0.253	4.81 4.24 3.68 0.487 0.215 0.206 0.161	6.07 5.34 4.41 0.614 0.248 0.238 0.175