

ULAS J0148+0600

Sys	ID	Ion	z	W_0 (Å)	log(N) (cm ⁻²)	b (kms ⁻¹)	comp recovery rate %	syst reco ra %
1	a	MgII 2796	$2.39557 \pm 4.4 \times 10^{-5}$	0.117 ± 0.005	$12.57^{+0.07}_{-0.11}$	$13.9^{+2.43}_{-4.65}$		
		MgII 2803		0.066 ± 0.007				
2	a	FeII 2600	$2.47759 \pm 6.0 \times 10^{-5}$	0.078 ± 0.003	$12.80^{+0.07}_{-0.16}$	$19.9^{+1.48}_{-4.47}$		
		FeII 2586		0.024 ± 0.003				
		FeII 2382		0.084 ± 0.430				
		FeII 2344		0.03211 ± 0.53254				
		FeII 1608		0.008 ± 1.174				
2	c	MgII 2796	$2.47762 \pm 3.5 \times 10^{-5}$	0.303 ± 0.007	$13.01^{+0.09}_{-0.08}$	$28.1^{+3.73}_{-2.41}$		
		MgII 2803		0.181 ± 0.008				
2	d	MgII 2796	$2.47894 \pm 1.8 \times 10^{-5}$	0.392 ± 0.005	$13.29^{+0.07}_{-0.06}$	$20.6^{+2.11}_{-1.87}$		
		MgII 2803		0.271 ± 0.006				
2	e	FeII 2600	2.47894 ± 0.00011	0.060 ± 0.004	$12.67^{+0.32}_{-0.33}$	$30.6^{+11.5}_{-9.24}$		
		FeII 2586		0.018 ± 0.004				
		FeII 2382		0.068 ± 0.920				
		FeII 2344		0.024 ± 13.42				
		FeII 1608		0.005 ± 1.309				
2	f	FeII 2600	$2.48038 \pm 1.5 \times 10^{-5}$	0.655 ± 0.004	$14.18^{+0.09}_{-0.07}$	$27.7^{+1.76}_{-1.50}$		
		FeII 2586		0.372 ± 0.008				
		FeII 2382		0.642 ± 0.704				
		FeII 2344		0.415 ± 5.004				
		FeII 1608		0.142 ± 1.285				
2	g	MgII 2796	2.48039 ± 0.00034	1.112 ± 0.006	$14.43^{+0.84}_{-0.05}$	$34.7^{+0.20}_{-0.87}$		
		MgII 2803		1.018 ± 0.007				
2	h	MgI 2852	2.48046 ± 0.00010	0.197 ± 0.013	$12.31^{+0.09}_{-0.08}$	$23.8^{+4.38}_{-2.71}$		
2	h	MgI 2852	2.48119 ± 0.00019	0.074 ± 0.013	$11.81^{+0.16}_{-0.14}$	$13.8^{+8.60}_{-4.06}$		
2	h	FeII 2600	$2.48119 \pm 1.7 \times 10^{-5}$	0.254 ± 0.005	$13.95^{+0.05}_{-0.07}$	$10.0^{+1.04}_{-1.10}$		
		FeII 2586		0.174 ± 0.004				
		FeII 2382		0.244 ± 0.451				
		FeII 2344		0.190 ± 2.879				
		FeII 1608		0.071 ± 0.939				
2	i	MgII 2796	2.48119 ± 0.00034	0.602 ± 0.005	$14.11^{+0.43}_{-0.07}$	$18.8^{+7.06}_{-0.91}$		
		MgII 2803		0.557 ± 0.006				
2	j	MgII 2796	$2.48231 \pm 4.4 \times 10^{-5}$	0.144 ± 0.008	$12.66^{+0.12}_{-0.11}$	$14.2^{+4.62}_{-4.66}$		
		MgII 2803		0.079 ± 0.005				
3	a	MgI 2852	$2.72170 \pm 6.1 \times 10^{-5}$	0.070 ± 0.007	$11.71^{+0.26}_{-0.16}$	$15.2^{+20.2}_{-5.14}$		
3	a	MgII 2796	$2.72177 \pm 6.3 \times 10^{-5}$	0.840 ± 0.015	$13.45^{+0.03}_{-0.05}$	$53.1^{+11.3}_{-5.66}$		
		MgII 2803		0.390 ± 0.010				

3	b	FeII 2600	$2.72196 \pm 9.3 \times 10^{-5}$	0.213 ± 0.006	$13.29^{+0.19}_{-0.09}$	$31.0^{+12.8}_{-2.53}$
		FeII 2586		0.070 ± 0.006		
		FeII 2382		0.234 ± 0.007		
		FeII 2344		0.093 ± 0.003		
		FeII 1608		0.023 ± 0.385		
3	d	MgII 2796	$2.72203 \pm 1.8 \times 10^{-5}$	0.796 ± 0.011	$14.19^{+0.56}_{-0.11}$	$22.0^{+2.40}_{-1.14}$
		MgII 2803		0.543 ± 0.007		
3	d	MgI 2852	$2.72227 \pm 6.1 \times 10^{-5}$	0.038 ± 0.004	$11.61^{+0.14}_{-0.14}$	$7.18^{+14.4}_{-6.18}$
3	d	FeII 2600	$2.72239 \pm 2.4 \times 10^{-5}$	0.128 ± 0.004	$13.30^{+0.06}_{-0.10}$	$6.49^{+1.34}_{-1.92}$
		FeII 2586		0.059 ± 0.004		
		FeII 2382		0.122 ± 0.007		
		FeII 2344		0.072 ± 0.002		
		FeII 1608		0.022 ± 0.289		
4	a	MgII 2796	3.01823 ± 0.00010	1.005 ± 0.041	$13.56^{+0.07}_{-0.05}$	$73.0^{+14.6}_{-5.72}$
		MgII 2803		0.616 ± 0.020		
4	b	MgII 2796	$3.01850 \pm 2.3 \times 10^{-5}$	0.629 ± 0.029	$14.16^{+0.97}_{-0.10}$	$24.4^{+5.70}_{-1.47}$
		MgII 2803		0.520 ± 0.007		
4	c	MgII 2796	$3.01997 \pm 2.2 \times 10^{-5}$	0.446 ± 0.011	$13.27^{+0.02}_{-0.06}$	$23.1^{+1.66}_{-1.61}$
		MgII 2803		0.289 ± 0.010		
4	d	FeII 2600	$3.01843 \pm 3.0 \times 10^{-5}$	0.676 ± 0.010	$13.86^{+0.04}_{-0.07}$	$39.7^{+3.81}_{-3.23}$
		FeII 2586		0.270 ± 0.014		
		FeII 2382		0.604 ± 0.005		
		FeII 2344		0.296 ± 0.009		
		FeII 1608		0.083 ± 0.499		
4	e	FeII 2600	$3.01858 \pm 3.3 \times 10^{-5}$	0.175 ± 0.004	$14.02^{+0.10}_{-0.14}$	$7.16^{+2.82}_{-2.09}$
		FeII 2586		0.132 ± 0.006		
		FeII 2382		0.195 ± 0.002		
		FeII 2344		0.155 ± 0.005		
		FeII 1608		0.071 ± 0.313		
4	f	FeII 2600	$3.02007 \pm 3.2 \times 10^{-5}$	0.113 ± 0.016	$13.03^{+0.08}_{-0.11}$	$8.06^{+15.6}_{-2.85}$
		FeII 2586		0.045 ± 0.019		
		FeII 2382		0.104 ± 0.003		
		FeII 2344		0.048 ± 0.006		
		FeII 1608		0.013 ± 0.354		
4	g	MgI 2852	3.01833 ± 0.00033	0.125 ± 0.022	$12.00^{+0.43}_{-0.20}$	$62.1^{+128.}_{-16.3}$
4	h	MgI 2852	$3.01851 \pm 4.1 \times 10^{-5}$	0.115 ± 0.009	$12.49^{+0.14}_{-0.15}$	$4.38^{+0.56}_{-0.59}$
4	i	MgI 2852	3.02023 ± 0.00262	0.034 ± 0.015	$11.72^{+0.04}_{-0.34}$	$1.66^{+0.37}_{-0.65}$
4	j	CaII 3934	3.01845 ± 0.01420	0.052 ± 0.005	$12.00^{+0.19}_{-0.24}$	$2.23^{+1.69}_{-1.23}$
		CaII 3969		0.035 ± 0.005		
5	a	MgII 2796	3.05164 ± 0.00011	0.279 ± 0.024	$13.05^{+0.13}_{-0.06}$	$37.7^{+8.26}_{-2.75}$
		MgII 2803		0.210 ± 0.024		
5	b	MgII 2796	$3.05223 \pm 3.3 \times 10^{-5}$	0.154 ± 0.023	$14.50^{+0.04}_{-0.59}$	$4.34^{+0.91}_{-0.46}$
		MgII 2803		0.183 ± 0.022		
6	b	MgII 2796	$3.69207 \pm 3.7 \times 10^{-5}$	0.077 ± 0.005	$12.26^{+0.31}_{-0.21}$	$20.5^{+22.5}_{-6.65}$
		MgII 2803		0.039 ± 0.009		

7	a	MgII 2796	$4.45996 \pm 6.2 \times 10^{-5}$	0.389 ± 0.006	$13.65^{+0.03}_{-0.08}$	$13.5^{+1.77}_{-1.21}$
		MgII 2803		0.330 ± 0.004		
7	b	FeII 2600	$4.45992 \pm 1.1 \times 10^{-5}$	0.197 ± 0.013	$13.72^{+0.15}_{-0.14}$	$7.78^{+0.76}_{-0.83}$
		FeII 2586		0.132 ± 0.024		
		FeII 2382		0.169 ± 0.004		
		FeII 2344		0.147 ± 0.008		
		FeII 1608		0.048 ± 0.001		
		FeII 1260		0.015 ± 0.481		
7	c	AlII 1670	$4.45996 \pm 2.8 \times 10^{-5}$	0.116 ± 0.002	$12.79^{+0.04}_{-0.06}$	$9.29^{+0.69}_{-1.55}$
8	a	CIV 1548	$4.47692 \pm 1.1 \times 10^{-5}$	0.244 ± 0.001	$14.23^{+0.06}_{-0.07}$	$20.7^{+1.36}_{-1.82}$
		CIV 1550		0.183 ± 0.001		
9	a	CIV 1548	$4.57120 \pm 9.0 \times 10^{-5}$	0.042 ± 0.002	$13.06^{+0.45}_{-0.26}$	$25.0^{+64.1}_{-6.77}$
		CIV 1550		0.020 ± 0.001		
10	a	MgII 2796	$4.89031 \pm 3.9 \times 10^{-5}$	0.699 ± 0.004	$14.21^{+0.23}_{-0.12}$	$19.0^{+0.33}_{-1.13}$
		MgII 2803		0.526 ± 0.003		
10	b	MgII 2796	$4.89161 \pm 4.3 \times 10^{-5}$	0.782 ± 0.019	$14.07^{+0.15}_{-0.09}$	$30.3^{+1.65}_{-1.42}$
		MgII 2803		0.817 ± 0.004		
10	c	CIV 1548	4.89095 ± 0.00015	0.059 ± 0.002	$13.24^{+0.38}_{-0.16}$	$31.8^{+67.6}_{-4.46}$
		CIV 1550		0.031 ± 0.003		
10	d	FeII 2600	$4.89056 \pm 7.5 \times 10^{-5}$	0.522 ± 0.004	$14.07^{+0.09}_{-0.08}$	$23.7^{+3.84}_{-1.82}$
		FeII 2586		0.307 ± 0.008		
		FeII 2382		0.551 ± 0.011		
		FeII 2344		0.383 ± 0.248		
		FeII 1608		0.110 ± 0.003		
		FeII 1260		0.032 ± 0.006		
10	e	FeII 2600	$4.89176 \pm 5.7 \times 10^{-5}$	0.208 ± 0.003	$14.30^{+0.53}_{-0.08}$	$7.04^{+1.65}_{-0.17}$
		FeII 2586		0.181 ± 0.044		
		FeII 2382		0.223 ± 0.010		
		FeII 2344		0.190 ± 0.091		
		FeII 1608		0.096 ± 0.003		
		FeII 1260		0.043 ± 0.005		
10	f	SiII 1526	$4.89049 \pm 3.7 \times 10^{-5}$	0.233 ± 0.002	$14.43^{+0.15}_{-0.08}$	$17.8^{+0.48}_{-1.24}$
		SiII 1304		0.164 ± 0.015		
		SiII 1260		0.291 ± 0.007		
		SiII 1193		0.253 ± 0.200		
		SiII 1190		0.210 ± 0.924		
10	g	SiII 1526	$4.89172 \pm 4.3 \times 10^{-5}$	0.223 ± 0.002	$14.30^{+0.07}_{-0.06}$	$20.0^{+0.67}_{-1.54}$
		SiII 1304		0.148 ± 0.014		
		SiII 1260		0.303 ± 0.007		
		SiII 1193		0.262 ± 0.200		
		SiII 1190		0.218 ± 1.733		
10	h	AlII 1670	4.89054 ± 0.00013	0.268 ± 0.004	$13.05^{+0.06}_{-0.06}$	$27.3^{+1.42}_{-1.92}$
10	i	AlII 1670	4.89175 ± 0.00012	0.243 ± 0.005	$13.02^{+0.06}_{-0.06}$	$22.5^{+1.53}_{-2.13}$
10	j	MgI 2852	$4.89099 \pm 6.8 \times 10^{-5}$	0.121 ± 0.006	$11.98^{+0.27}_{-0.20}$	$47.7^{+22.1}_{-8.96}$
11	i	CIV 1548	4.93212 ± 0.00011	0.093 ± 0.002	$13.48^{+0.00}_{-0.10}$	$18.7^{+5.74}_{-3.79}$

		CIV 1550		0.052 ± 0.002		
11	a	CIV 1548	4.93308 ± 0.00020	0.057 ± 0.002	$13.22^{+0.07}_{-0.16}$	$20.8^{+9.50}_{-3.77}$
		CIV 1550		0.029 ± 0.002		
11	b	CIV 1548	4.93463 ± 0.00030	0.042 ± 0.003	$13.07^{+0.25}_{-0.27}$	$38.3^{+8.97}_{-10.1}$
		CIV 1550		0.022 ± 0.003		
12	c	CIV 1548	4.95183 ± 0.00033	0.013 ± 0.002	$12.56^{+0.73}_{-0.69}$	$19.2^{+66.5}_{-18.2}$
		CIV 1550		0.006 ± 0.002		
13	a	CIV 1548	4.95809 ± 0.00027	0.012 ± 0.002	$12.56^{+0.68}_{-0.42}$	$3.58^{+77.6}_{-2.48}$
		CIV 1550		0.006 ± 0.002		
14	a	CIV 1548	5.02327 ± 0.00013	0.092 ± 0.010	$13.49^{+0.13}_{-0.11}$	$16.1^{+7.78}_{-5.47}$
		CIV 1550		0.052 ± 0.008		
15	a	CIV 1548	$5.12488 \pm 6.9 \times 10^{-5}$	0.199 ± 0.005	$13.87^{+0.07}_{-0.07}$	$28.0^{+0.61}_{-2.04}$
		CIV 1550		0.119 ± 0.004		
15	a	SiIV 1393	$5.12509 \pm 6.7 \times 10^{-5}$	0.040 ± 0.001	$12.75^{+0.26}_{-0.21}$	$24.3^{+15.7}_{-5.55}$
		SiIV 1402		0.022 ± 0.001		
16	a	CIV 1548	5.13495 ± 0.00024	0.076 ± 0.005	$13.33^{+0.20}_{-0.18}$	$35.1^{+30.2}_{-8.21}$
		CIV 1550		0.036 ± 0.003		
17	a	MgII 2796	5.46914 ± 0.00013	0.046 ± 0.007	$12.28^{+0.39}_{-0.51}$	$2.59^{+0.17}_{-1.58}$
		MgII 2803		0.030 ± 0.007		
18	a	SiIV 1393	5.77495 ± 0.00038	0.029 ± 0.013	$12.63^{+0.21}_{-0.22}$	$6.54^{+7.25}_{-5.42}$
		SiIV 1402		0.016 ± 0.005		
18	b	SiII 1526	$5.77515 \pm 8.5 \times 10^{-5}$	0.003 ± 0.006	$12.23^{+0.20}_{-0.20}$	$13.7^{+6.36}_{-7.97}$
		SiII 1304		0.002 ± 0.001		
		SiII 1260		0.023 ± 0.001		
		SiII 1193		0.010 ± 0.476		
		SiII 1190		0.005 ± 0.645		
19	a	SiIV 1393	5.82630 ± 0.00013	0.035 ± 0.002	$12.71^{+0.14}_{-0.12}$	$9.70^{+3.12}_{-6.98}$
		SiIV 1402		0.019 ± 0.001		