Table 2. Calculated Group Galaxy and Absorption Properties

| | | | MgII Absorption | | | | | B-band | | | K-band | | | |
(1) QSO [a]	(2) J-Name [a]	(3) z_{gal}	(4) z_{abs}	(5) $W_r(2796)$ Å	(6) DR	(7) Ref [b]	(8) D (kpc)	(9) K_{By} [c]	(10) M_B [d]	(11) L_B/L_B^*	(12) K_{Ky} [e]	(13) M_K [d]	(14) L_K/L_K^*	(15) $B-K$
SDSS	J003340.21−005525.53	0.1760	0.1759	0.19 ± 0.04	...	6	32.3	0.40	−19.07	0.23	0.31	−21.26	0.29	2.18
		0.1758					56.4	0.02	−18.66	0.16	−0.05	−19.27	0.04	0.61
SDSS	J005244.23−005721.7	0.13429	0.1346	1.46 ± 0.04	1.190 ± 0.05	10	31.7	−0.94	−21.22	1.74	−0.26	−23.39	2.14	2.16
		0.13465					84.3	0.03	−19.01	0.23	0.05	−19.99	0.09	0.97
		0.38260					59.6	−1.02	−19.49	0.27	...	...	...	...
		0.38024					83.8	−1.02	−17.81	0.06	...	...	...	...
0150−202[k]	**J015227.32−200107.10**	0.38146	0.383074	0.168 ± 0.015	1.17 ± 0.17	14	91.4	−1.02	−18.00	0.07	...	...	...	...
		0.38140					144.4	−1.02	−18.97	0.17	...	...	...	...
		0.38135					163.3	−1.02	−19.72	0.33	...	...	...	...
0151+045	J015427.99+044818.69	0.160	0.1602	1.55 ± 0.05	1.00 ± 0.09	1	17.5	−0.99	−19.42	0.32	...	...	...	...
		0.160					29.8	−0.99	−18.32	0.12	...	...	...	...
0226−4110[k]	J022815.17−405714.3	0.2065	0.2067	< 0.02	...	5	33.6	−1.13	−16.96	0.03	0.52	−19.36	0.05	2.40
		0.2078					108.9	−1.13	−18.63	0.15	0.52	−21.19	0.27	2.56
		0.2678					62.8	−1.06	−19.43	0.29	0.56	−21.90	0.49	2.47
0226−4110[k]	J022815.17−405714.3	0.2690	0.2678	0.03 ± 0.01	...	5	153.6	−1.06	−16.78	0.02	0.56	−20.08	0.09	3.30
		0.2680					164.4	−1.06	−18.01	0.08	0.56	−20.27	0.11	2.26
0349−146[k]	J035128.54−142908.71	0.324180[g]	0.3244	< 0.015	...	14	125.5	−1.00	−20.15	0.52	−0.54	−22.21	0.63	2.02
		0.324651[g]					161.9	−0.70	−20.95	1.09	−0.55	−22.50	0.82	1.55
0405−123	**J040748.43−121136.65**	0.16699[g]	0.167120	0.274 ± 0.002	1.26 ± 0.01	14	99.4	−0.44	−18.04	0.09	−0.36	−18.16	0.02	0.12
		0.16699[g]					115.3	−0.44	−21.65	2.49	−0.36	−22.56	0.97	0.91
0450−131	**J045313.48−130555.84**	0.4941	0.493936	0.674 ± 0.024	1.194 ± 0.059	3	49.7	−1.05	−19.72	0.29	−0.51	−22.25	0.59	2.53
		0.4931					62.2	−1.05	−19.74	0.30	−0.51	−22.24	0.59	2.50
		0.2835					46.9	−0.71	−17.36	0.04	...	...	...	...
		0.2821					84.6	−0.71	−19.27	0.24	...	...	...	...
0515−4414	**J051707.61−441056.2**	0.2825	0.281772	0.733 ± 0.002	1.478 ± 0.007	14	85.1	−0.71	−21.02	1.23	...	...	...	...
		0.2823					100.4	−0.71	−21.36	1.67	...	...	...	...
		0.2826					128.8	−0.71	−21.37	1.69	...	...	...	...

Table 2—Continued

(1) QSO[a]	(2) J-Name[a]	(3) z_{gal}	(4) z_{abs}	Mg II Absorption (5) $W_r(2796)$ Å	(6) DR	(7) Ref[b]	(8) D (kpc)	B-band (9) K_{By}[c]	(10) M_B[d]	(11) L_B/L_B^*	K-band (12) K_{Ky}[e]	(13) M_K[d]	(14) L_K/L_K^*	(15) $B-K$
SDSS	J074528.15+191952.68	0.4582	0.4549	0.65 ± 0.1	...	6	92.6	0.73	−21.84	2.13	0.25	−23.04	1.25	1.19
		0.4582					96.8	0.38	−21.29	1.28	−0.01	−22.07	0.51	0.78
SDSS	J083220.74+043416.78	0.171224[g]	0.1684	0.20 ± 0.04	...	6	61.1	0.01	−19.62	0.38	−0.05	−20.25	0.11	0.63
		0.1678					120.0	0.35	−21.07	1.46	0.30	−23.05	1.53	1.97
		0.168222[g]					144.9	0.14	−20.56	0.91	0.15	−22.32	0.78	1.76
SDSS	**J092554.71+400414.17**	0.2475	0.247604	1.18 ± 0.14	1.23 ± 0.22	14	84.0	0.76	−21.25	1.57	1.37	−23.21	1.67	1.96
		0.2467					95.6	0.36	−20.52	0.80	1.06	−21.98	0.54	1.46
SDSS	**J092837.98+602521.02**	0.1537	0.153783	1.16 ± 0.16	1.10 ± 0.22	14	39.5	0.07	−18.76	0.18	0.47	−19.75	0.07	0.99
		0.1542					51.3	0.07	−19.84	0.48	0.47	−20.81	0.20	0.97
		0.1540					94.5	0.28	−20.14	0.63	1.23	−22.16	0.68	2.02
SDSS	**J100902.06+071343.87**	0.35585[g]	0.355871	1.33 ± 0.17	1.25 ± 0.25	14	15.6	0.59	−17.87	0.06	0.21	−18.39	0.02	0.52
		0.35587[g]					47.0	0.24	−19.98	0.43	0.23	−20.66	0.15	0.68
1038−064	J104117.16+061016.92	0.306088[g]	0.3054	< 0.0419	...	14	92.8	−1.03	−21.58	1.99	−0.52	−23.35	1.82	1.76
		0.304858[g]					123.3	−1.06	−19.15	0.21	...	...	...	...
1127−145	**J113007.05−144927.38**	0.31207[g]	0.312709	1.769 ± 0.004	1.05 ± 0.09	13	17.3	−1.46	−18.13	0.08	...	...	...	...
		0.3132					45.6	−1.89	−20.45	0.70	−0.53	−22.56	0.87	2.10
		0.3124					80.8	−1.46	−21.04	1.20	...	...	...	...
		0.31139[g]					98.8	−1.46	−19.88	0.41	...	...	...	...
1127−145	J113007.05−144927.38	0.32839	0.328279	0.028 ± 0.003	1.560 ± 0.246	3	76.3	−1.46	−19.62	0.32	...	...	...	...
		0.32847					90.7	−1.46	−20.92	1.06	...	...	...	...
SDSS	**J113327.78+032719.17**	0.2367	0.237514	0.759 ± 0.005	1.456 ± 0.018	14	18.0	0.71	−21.24	1.58	1.35	−23.10	1.52	1.86
		0.2364					39.0	0.33	−20.54	0.83	1.05	−22.41	0.80	1.87
SDSS	J114830.12+021829.78	0.3206	0.3215	0.53 ± 0.02	...	6	116.2	1.11	−20.79	0.94	0.55	−22.67	0.96	1.88
		0.3206					139.1	1.11	−20.96	1.10	0.55	−22.81	1.10	1.85
SDSS	J121347.52+000129.99	0.2259	0.2258	0.54 ± 0.08	...	6	31.4	0.66	−20.32	0.69	0.38	−22.41	0.80	2.08
		0.2258					46.7	0.23	−19.42	0.30	0.06	−20.56	0.14	1.14

Table 2—Continued

(1) QSO [a]	(2) J-Name [a]	(3) z_{gal}	Mg II Absorption					B-band			K-band			
			(4) z_{abs}	(5) $W_r(2796)$ Å	(6) DR	(7) Ref [b]	(8) D (kpc)	(9) K_{By} [c]	(10) M_B [d]	(11) L_B/L_B^*	(12) K_{Ky} [e]	(13) M_K [d]	(14) L_K/L_K^*	(15) $B-K$
SDSS	J132831.08+075942.01	0.2537					71.2	0.79	−19.59	0.34	0.42	−21.30	0.28	1.70
		0.2537	0.2545	0.79 ± 0.03	...	6	94.8	0.79	−20.94	1.17	0.42	−22.76	1.09	1.81
		0.2549					132.6	0.29	−20.64	0.89	0.07	−21.77	0.43	1.13
SDSS	J144033.82+044830.9	0.11271	0.11304	1.18 ± 0.04	1.280 ± 0.06	10	25.4	−0.01	−19.86	0.51	0.05	−20.99	0.24	1.12
		0.11277					65.2	0.00	−20.98	1.43	0.12	−22.69	1.16	1.71
1556−245	**J155941.40−244238.83**	0.769	0.771483	2.49 ± 0.09	1.20 ± 0.07	14	41.2	−0.23	−20.55	0.46	...	...	...	...
		0.771					55.2	−0.23	−21.86	1.53	...	...	...	...
1622+238	**J162439.08+234512.20**	0.36809[g]	0.368112	0.247 ± 0.005	1.248 ± 0.046	3	113.5	−1.29	−20.81	0.92	−0.53	−23.21	1.54	2.39
		0.368					124.8	−1.29	−17.01	0.03	−0.53	−19.59	0.05	2.57
1623+269	**J162548.79+264658.75**	0.888	0.887679	0.903 ± 0.004	1.245 ± 0.01	3	47.9	0.12	−20.36	0.34	−0.64	−23.01	1.02	2.65
		0.888					71.4	−0.28	−19.99	0.24	...	...	...	...
SDSS	J204431.46+011312.43	0.1921	0.1927	0.50 ± 0.08	...	6	22.5	0.21	−18.67	0.15	0.16	−19.98	0.08	1.31
		0.1927					24.8	0.49	−20.20	0.64	0.33	−22.20	0.68	2.00
2126−158	**J212912.17−153841.04**	0.6668					49.7	−0.74	−21.49	1.22	...	...	...	...
		0.6643	0.662742	1.903 ± 0.014	1.14 ± 0.02	14	60.1	−0.74	−21.93	1.82	...	...	...	...
		0.6647					86.7	−0.74	−20.19	0.37	...	...	...	...
		0.6648					167.2	−0.74	−21.39	1.11	...	...	...	...
2128−123[k]	**J213135.26−120704.79**	0.430200[g]					48.1	−1.18	−20.35	0.56	−0.51	−22.41	0.71	2.06
		0.43072	0.429735	0.395 ± 0.01	1.16 ± 0.05	3	59.1	−0.99	−15.25	0.01	...	...	...	...
		0.43006					144.5	...	−16.38[f]	0.01[f]	...	...	...	...
		0.42982					170.8	...	−16.25[f]	0.01[f]	...	...	...	...

[a]Groups included in the kinematics analysis are marked with bold-faced field names. We have the HIRES/Keck or UVES/VLT spectra for each bolded group, and have measurable Mg II above our detection threshold.

[b]Mg II Absorption Measurements: (1) Guillemin & Bergeron (1997), (3) Kacprzak et al. (2011b), (6) Chen et al. (2010), (10) Kacprzak et al. (2011a), (13) Evans (2011), and (14) This work.

[c]K-correction used to obtain M_B from column (8) in Table 1 – Observed Galaxy Properties.

[d] Absolute magnitudes are AB magnitudes.

[e] K-correction used to obtain M_K from column (11) in Table 1 – Observed Galaxy Properties.

[f] R-band absolute magnitude, M_R, and luminosity, L_R/L_R^*, obtained from Péroux et al. (2017)

[g] Redshift measured from Keck/ESI spectrum (this work).

[k] Originally included as an isolated galaxy in MAGⅡCAT (Nielsen et al. 2013a,b).