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Table 3. Coordinates, Velocities and Magnitudes of Emission–Line Galaxies

#	Name	α (1950)	δ (1950)	$V^a_{hel} \pm \sigma_V$	m$_B$	M$_B^b$	Type	Other names from NED and number of reference
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
	HS 0809+4334	08 09 01.5	+43 34 17	14146 ± 57	18.4	–18.0	BCG	
	HS 0818+4234	08 18 40.5	+42 34 23	17424 ± 68	19.7	–17.1	NON	
	HS 0822+4049	08 22 25.1	+40 49 57	12087 ± 100	17.3	–18.7	BCG	
	HS 0822+4238	08 22 50.9	+42 38 24	11637 ± 60	18.2	–17.8	BCG	
	HS 0824+4139	08 24 11.6	+41 39 00	10784 ± 53	18.4	–17.4	BCG?	IRAS F08241+4139
	HS 0828+4305	08 28 04.6	+43 05 24	10700 ± 86	16.7	–19.0	SBN	
	HS 0828+4346	08 28 32.0	+43 46 24	7649 ± 62	18.4	–16.6	BCG	
	HS 0831+4208	08 31 14.5	+42 08 17	44859 ± 56	+17.3	–21.5	SBN	MBWU023
	HS 0849+3802‡	08 49 09.9	+38 02 27	13368 ± 71	16.9	–19.4	SBN	IRAS F08491+3802
	HS 0849+3639‡	08 49 34.0	+36 39 14	7503 ± 47	20.0	–15.0	BCG	
	HS 0850+3722‡	08 50 17.5	+37 22 40	14925 ± 68	+18.7	–17.8	NON	
	HS 0855+4118	08 55 02.3	+41 18 44	8113 ± 80	17.0	–18.2	BCG?	
	HS 0855+3729‡	08 55 27.6	+37 29 06	14921 ± 59	17.5	–19.0	SBN	
	HS 0900+4318	09 00 26.4	+43 18 52	2421 ± 95	18.5	–14.0	BCG	MBWU369
	HS 0901+3517‡	09 01 17.6	+35 17 29	12397 ± 95	18.2	–17.9	BCG?	
	HS 0904+3752‡	09 04 29.2	+37 52 27	6803 ± 86	18.4	–16.4	DANS?	FGC0841
	HS 0907+4201	09 07 43.6	+42 01 48	12004 ± 104	17.1	–18.9	SBN	
	HS 0912+4427	09 12 08.2	+44 27 26	11637 ± 101	17.4	–18.6	DANS?	
	HS 0912+4259	09 12 23.6	+42 59 50	14268 ± 53	16.4	–20.0	SBN	IRAS F09123+4259
	HS 0912+4433	09 12 28.7	+44 33 55	11345 ± 92	17.3	–18.6	BCG	
	HS 0912+3900‡	09 12 38.2	+39 00 21	20628 ± 92	17.2	–20.0	SBN	NPM1G+39.0196
	HS 0923+4021	09 23 13.8	+40 21 32	5190 ± 110	17.2	–17.0	BCG	
	HS 0927+4159	09 27 00.6	+41 59 35	13533 ± 95	17.4	–18.9	BCG	
	HS 0934+4150	09 34 21.3	+41 50 29	12011 ± 74	17.0	–19.0	BCG	KUG0934+418
	HS 0934+4256	09 34 53.9	+42 56 20	3600 ± 44	17.2	–16.2	DANS	KUG0934+429
	HS 0935+4135	09 35 30.7	+41 35 07	79288 ± 300	18.0	–22.1	LINER	
	HS 0938+4215	09 38 49.6	+42 15 40	4680 ± 98	17.6	–16.4	BCG	
	HS 0939+4124	09 39 37.2	+41 24 03	13646 ± 62	18.5	–17.8	BCG	
	HS 0940+4052	09 40 08.1	+40 52 28	18255 ± 44	16.1	–20.8	BCG?	
	HS 0941+4024A	09 41 54.7	+40 24 52	21709 ± 20	+17.2	–20.1	SBN	FIRSTJ094501.7+40110
	HS 0941+4024B	09 41 56.2	+40 24 53	21724 ± 14	16.6	–20.7	BCG?	
	HS 0947+3526‡	09 47 59.6	+35 26 39	4678 ± 44	16.4	–17.6	BCG	KUG0947+354
	HS 0948+3723	09 48 19.0	+37 23 05	5140 ± 37	+17.8	–16.4	BCG	**6**
	HS 0951+3712‡	09 51 40.6	+37 12 07	12275 ± 65	16.9	–19.2	SBN	FIRSTJ095440.9+36575
	HS 0952+4024‡	09 52 30.8	+40 24 28	8648 ± 50	17.3	–18.0	DANS	
	HS 0953+3628	09 53 16.5	+36 28 41	14435 ± 101	17.3	–19.1	BCG	CG 308,**5**
	HS 0954+3615‡	09 54 35.4	+36 15 47	5193 ± 68	18.4	–15.8	BCG	
	HS 0956+3702‡	09 56 08.4	+37 02 05	15679 ± 74	16.7	–19.9	SBN	
	HS 0958+3654‡	09 58 27.9	+36 54 43	12265 ± 300	17.4	–18.7	SBN?	CGCG182-058,**8**
	HS 0958+3637	09 58 29.2	+36 37 30	13134 ± 75	17.6	–18.6	DANS?	

Table 3. (Continued)

#	Name	α (1950)	δ (1950)	$V_{hel}^{a} \pm \sigma_V$	m_B	$M_B{}^{b}$	Type	Other names from NED and number of reference
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
	HS 0958+3718	09 58 15.5	+37 18 38	1606 ± 77	15.7	–16.0	BCG	CG 315,KUG0958+373,**5**
	HS 1004+3730[‡]	10 04 22.3	+37 30 22	10133 ± 94	16.5	–19.2	SBN	KUG1004+375
	HS 1008+3620[‡]	10 08 01.5	+36 20 51	11424 ± 53	17.2	–18.7	BCG	
	HS 1011+3604	10 11 29.6	+36 04 55	10227 ± 65	17.5	–18.2	DANS?	
	HS 1014+3535[‡]	10 14 50.0	+35 35 50	26718 ± 72	17.6	–20.2	SBN	KUG1014+355
	HS 1016+3733	10 16 02.7	+37 33 04	14451 ± 78	16.1	–20.3	LINER	KUG1016+375
	HS 1021+4839	10 21 39.0	+48 39 53	7495 ± 69	16.7	–18.3	SBN?	
	HS 1025+3707A	10 25 12.7	+37 07 08	7503 ± 102	17.9	–17.1	BCG	
	HS 1025+3707B	10 25 13.7	+37 07 10	39650 ± 300	+16.9	–21.7	SBN	
	HS 1025+3658[‡]	10 25 32.3	+36 58 28	10988 ± 59	16.9	–18.9	BCG	
	HS 1025+4057	10 25 51.0	+40 57 52	16482 ± 59	16.7	–20.0	SBN	
	HS 1027+4728	10 27 45.9	+47 28 57	18225 ± 100	17.6	–19.3	SBN	
	HS 1028+3716	10 28 24.8	+37 16 15	11137 ± 109	16.9	–19.0	DANS	KUG1028+372
	HS 1032+4600	10 32 21.2	+46 00 11	9299 ± 61	17.1	–18.4	BCG?	KUG1032+460
	HS 1043+3852[‡]	10 43 09.0	+38 52 15	10071 ± 60	+18.9	–16.7	BCG	
	HS 1122+3800[‡]	11 22 53.7	+38 00 33	11438 ± 98	+18.7	–17.2	BCG	
	HS 1148+3732	11 48 05.4	+37 32 22	10835 ± 51	17.5	–18.3	DANS	KUV11481+3732,**14**
	HS 1159+3940	11 59 52.5	+39 40 59	6299 ± 29	+17.4	–17.2	DANS	**6**
	HS 1200+3824	12 00 41.7	+38 24 01	23983 ± 146	+18.0	–19.4	SBN?	MAPS-NGPO 266 006267
	HS 1201+3535	12 01 17.6	+35 35 08	10216 ± 11	19.0	–16.7	BCG	MAPS-NGPO 267 026327
	HS 1202+3732	12 02 36.8	+37 32 55	6787 ± 7	+18.7	–16.1	BCG	MAPS-NGPO 267 0065953
	HS 1204+3945	12 04 45.2	+39 45 47	11178 ± 195	18.0	–17.9	BCG?	
	HS 1205+3940	12 05 29.2	+39 40 19	6362 ± 14	18.1	–16.5	BCG	CG 1517
	HS 1206+4012	12 06 19.8	+40 12 24	26721 ± 300	18.1	–19.7	NON	
	HS 1210+3831	12 10 46.7	+38 31 42	15800 ± 66	16.9	–19.7	BCG?	CG 1538
	HS 1211+3807	12 11 20.1	+38 07 27	7433 ± 133	16.3	–18.7	BCG	MAPS-NGPO 267 004482
	HS 1211+4012	12 11 51.5	+40 12 23	7091 ± 23	18.3	–16.6	BCG	
	HS 1212+3640	12 12 09.5	+36 40 57	12704 ± 56	16.5	–19.6	BCG	KUG1212+366
	HS 1213+3636A	12 13 03.8	+36 36 56	522 ± 35	17.5:	–11.7:	BCG	
	HS 1213+3636B	12 13 04.1	+36 36 31	229 ± 38	17.3	–9.6	SA in SBm	in NGC 4214
	HS 1215+3850	12 15 46.7	+38 50 07	15702 ± 65	16.1	–20.5	BCG?	CG 1553
	HS 1216+3743	12 16 38.5	+37 43 24	5978 ± 124	17.9	–16.6	DANS	MAPS-NGPO 267 007023
	HS 1218+3945	12 18 52.5	+39 45 44	11475 ± 57	17.7	–18.2	BCG	
	HS 1220+3845	12 20 11.8	+38 45 38	57118 ± 57	+17.8	–21.6	Sy2	
	HS 1223+3938	12 23 29.6	+39 38 31	10873 ± 69	16.8	–19.0	BCG	NPM1G+39.0289,CG 1566,**2**,**7**
	HS 1224+4027	12 24 42.2	+40 27 56	17724 ± 5	18.6	–18.3	BCG	
	HS 1225+4129	12 25 45.5	+41 29 16	11411 ± 17	18.7	–17.2	BCG	
	HS 1226+4113	12 26 55.8	+41 13 52	3845 ± 17	18.7	–14.9	BCG	
	HS 1232+3834	12 32 25.0	+38 34 31	4049 ± 57	+16.8	–16.9	BCG	MAPS-NGPO 218 110114
	HS 1232+3947	12 32 54.6	+39 47 39	6506 ± 143	17.2	–17.5	BCG	**2**,**7**
	HS 1235+4232	12 35 13.7	+42 32 02	7449 ± 90	18.4	–16.6	DANS?	
	HS 1236+3821	12 36 31.9	+38 21 52	2069 ± 103	15.4	–16.8	BCG	UGC 7816,CGCG1236.5+3822, NPM1G+38.0259,**2**,**7**

Table 3. (Continued)

#	Name	α (1950)	δ (1950)	$V_{hel}^{a} \pm \sigma_V$	m_B	$M_B{}^{b}$	Type	Other names from NED and number of reference
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
	HS 1236+4532	12 36 39.8	+45 32 54	16334:± 300	17.6	–19.1	NON	MAPS-NGPO 172 027192
	HS 1237+3900	12 37 04.0	+39 00 00	11198 ± 11	+18.6	–17.3	BCG	**6**
	HS 1238+4229	12 38 24.1	+42 29 08	11370 ± 53	18.9	–17.0	BCG	
	HS 1242+4058A	12 42 00.3	+40 58 12	5512 ± 197	16.6	–17.7	BCG	MAPS-NGPO 218 061180
	HS 1244+3647	12 44 36.9	+36 47 45	14171 ± 89	16.4	–20.0	BCG	**2**,**7**
	HS 1245+4413	12 45 52.8	+44 13 25	9293 ± 62	17.7	–17.8	DANS	
	HS 1300+4225	13 00 36.5	+42 25 39	11374 ± 23	+17.3	–18.6	BCG?	
	HS 1302+4058	13 02 13.6	+40 58 51	9200 ± 34	+16.8	–18.6	BCG	MAPS-NGPO 219 053488
	HS 1302+4101	13 02 49.8	+41 01 22	10567 ± 20	+18.5	–17.2	BCG	
	HS 1305+4049	13 05 49.2	+40 49 09	10456 ± 57	+17.8	–17.9	BCG	
	HS 1306+4146	13 06 13.5	+41 46 23	17237 ± 5	+19.1	–17.7	BCG	
	HS 1306+4151	13 06 46.9	+41 51 04	82269 ± 23	+18.0	–22.2	NON	
	HS 1306+4232	13 06 57.7	+42 32 19	14701 ± 90	+16.9	–19.6	DANS	MAPS-NGPO 219 019849
	HS 1307+4225	13 07 38.8	+42 25 04	2677 ± 20	+17.4	–15.3	BCG	MAPS-NGPO 219 022840
	HS 1309+4446	13 09 20.6	+44 46 42	8944 ± 158	+16.4	–19.0	DANS	
	HS 1310+4224	13 10 20.8	+42 24 08	12565 ± 117	+17.7	–18.4	DANS	
	HS 1311+3628	13 11 00.0	+36 28 02	1094 ± 12	18.0	–12.9	BCG	Near UGC 8303,**2**,**7** NGP9 F269-0669419 is 14″ to E
	HS 1311+4507	13 11 30.2	+45 07 33	18285 ± 11	+18.6	–18.4	BCG	
	HS 1311+4204	13 11 50.0	+42 04 50	10495 ± 14	+18.1	–17.6	DANS	
	HS 1311+3924	13 11 54.2	+39 24 47	1401 ± 54	15.6	–15.8	BCG	UGC 8315,**4**
	HS 1313+4440	13 13 04.4	+44 40 15	10982 ± 144	16.5	–19.3	SBN	UGC 8327,MRK 248,**9**
	HS 1313+4246	13 13 25.5	+42 46 04	12055 ± 11	+19.2	–16.9	BCG	MAPS-NGPO 219 017637
	HS 1313+4041	13 13 34.2	+40 41 07	6373 ± 23	+17.6	–17.1	BCG	
	HS 1313+4521	13 13 40.2	+45 21 59	3449 ± 18	+18.9	–14.4	BCG	
	HS 1314+4145	13 14 00.0	+41 45 28	6445 ± 127	15.4	–19.3	SBN	MRK 1477,**10**
	HS 1315+4129	13 15 42.5	+41 29 14	35297 ± 116	+18.0	–20.3	NON	FIRSTJ131755.8+41132, 7C1315+4129
	HS 1316+3839	13 16 01.7	+38 39 22	18065 ± 86	16.4	–20.5	BCG?	
	HS 1317+4521B	13 17 50.9	+45 21 60	32888 ± 133	+16.3	–21.9	Sy1	
	HS 1322+3708[†]	13 22 17.0	+37 08 39	14127 ± 67	16.4	–20.0	BCG	KUG1322+371
	HS 1323+3946	13 23 29.9	+39 46 13	7064 ± 162	16.0	–18.9	DANS	IRAS F13235+3945
	HS 1330+3651	13 30 54.0	+36 51 55	5044 ± 117	16.7	–17.4	BCG	**2**,**7**
	HS 1334+3957	13 34 11.4	+39 57 31	2513 ± 61	16.9	–15.7	BCG	**2**,**7**
	HS 1336+3650	13 36 43.9	+36 50 57	5791 ± 94	17.8	–16.6	BCG	**2**,**7**
	HS 1354+3635	13 54 29.9	+36 35 39	5056 ± 56	16.1	–18.0	BCG	CG 1201,**3**,**2**,**7**
	HS 1402+3650	14 02 39.2	+36 50 47	10456 ± 83	16.3	–19.4	BCG	**2**,**7**
	HS 1408+4227	14 08 07.5	+42 27 26	20355 ± 17	20.6	–16.6	BCG	
	HS 1408+4522	14 08 09.3	+45 22 23	20443 ± 113	17.8	–19.4	BCG	CG 367
	HS 1410+3627	14 10 02.2	+36 27 15	9890 ± 90	16.9	–18.7	BCG	**2**,**7**
	HS 1412+4203	14 12 12.3	+42 03 50	24842 ± 160	19.1	–18.5	SBN	
	HS 1414+4034	14 14 43.1	+40 34 58	6097 ± 32	20.1	–14.5	BCG	
	HS 1417+4433	14 17 27.9	+44 33 14	18797 ± 5	19.8	–17.2	BCG	

Table 3. (Continued)

#	Name	α (1950)	δ (1950)	$V_{hel}^{a} \pm \sigma_V$	m_B	$M_B{}^{b}$	Type	Other names from NED and number of reference
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
	HS 1419+3639	14 19 16.2	+36 39 18	3579 ± 42	17.1	−16.3	BCG	UGC 9198,**2**
	HS 1420+3726†	14 20 50.1	+37 26 58	10847 ± 45	17.5	−18.3	BCG	
	HS 1423+3945†	14 23 13.6	+39 45 27	1480 ± 35	18.5	−13.0	SA in Sp	in UGC 9242
	HS 1423+4054	14 23 50.0	+40 54 48	8059 ± 93	18.5	−16.7	BCG	
	HS 1427+4309	14 27 53.4	+43 09 40	2679 ± 151	17.8	−15.0	BCG	CG 449,PGC051797, [KOS87]142752+430936,**12**
	HS 1428+4056	14 28 15.9	+40 56 16	10276 ± 49	19.9	−15.8	DANS	
	HS 1430+4040	14 30 17.9	+40 40 54	6999 ± 60	17.2	−17.7	DANS	CG 467,IRAS F14302+4041, PGC051943,**13**
	HS 1433+4411	14 33 27.2	+44 11 21	2945 ± 90	16.8	−16.2	BCG	CG 480,NPM1G+44.0284
	HS 1433+4245	14 33 53.6	+42 45 23	21481 ± 300	14.0	−23.3	LINER	NPM1G+42.0387
	HS 1437+4002	14 37 58.5	+40 02 29	11084 ± 29	+19.2	−16.7	BCG	**6**
	HS 1441+4122	14 41 24.4	+41 22 44	11007 ± 122	17.3	−18.5	DANS	NPM1G+41.0365
	HS 1443+4027	14 43 11.0	+40 27 39	8425 ± 30	17.1	−18.2	BCG	CG 527
	HS 1447+4402	14 47 20.1	+44 02 50	24642 ± 56	19.2	−18.4	DANS	
	HS 1448+4518	14 48 56.3	+45 18 01	10661 ± 149	17.8	−18.0	DANS?	
	HS 1450+3844	14 50 20.8	+38 44 37	4179 ± 54	17.8	−15.9	BCG	CG 565,[SP82]25,**2**
	HS 1450+4234	14 50 55.3	+42 34 20	10393 ± 194	17.4	−18.3	DANS	CG 568,NPM1G+42.0398
	HS 1458+4129	14 58 03.9	+41 29 17	8687 ± 116	18.4	−16.9	DANS	
	HS 1514+4602	15 14 27.6	+46 02 48	22810 ± 300	16.8	−20.7	SBN	NPM1G+46.0322,**1**
	HS 1537+4411	15 37 19.2	+44 11 23	9312 ± 43	17.2	−18.3	BCG	
	HS 1545+4055	15 45 26.2	+40 55 36	9521 ± 14	18.8	−16.7	BCG	[SP82]54
	HS 1545+4459	15 45 34.0	+44 59 19	10480 ± 114	18.4	−17.3	BCG?	
	HS 1546+4319	15 46 31.9	+43 19 50	12400 ± 45	16.5	−19.6	SBN	IRAS F15465+4320
	HS 1603+3759‡	16 03 13.2	+37 59 08	12071 ± 82	18.6	−17.4	BCG	
	HS 1613+3902	16 13 51.4	+39 02 28	10046 ± 77	18.7	−16.9	BCG	FIRSTJ161538.5+38544
	HS 1616+3627†	16 16 19.9	+36 27 11	10210 ± 38	16.5	−19.2	Sy1	RXJ1618.1+3619,**11**
	HS 1625+3847	16 25 49.1	+38 47 28	9355 ± 131	18.4	−17.1	BCG?	
	HS 1633+4703	16 33 12.8	+47 03 44	2681 ± 62	16.7	−16.1	BCG	**2**,**7**
	HS 1645+4339	16 45 57.7	+43 39 27	9577 ± 118	18.3	−17.2	BCG	
	HS 1646+4003B	16 46 35.6	+40 03 59	9877 ± 83	19.7	−15.9	BCG?	
	HS 1649+3621†	16 49 35.6	+36 21 13	9189 ± 162	18.1	−17.3	BCG	
	HS 1650+3706	16 50 22.4	+37 06 22	6898 ± 30	19.1	−15.7	BCG	
	HS 1653+4340	16 53 19.4	+43 40 29	59773 ± 116	+18.7	−20.9	SBN?	
	HS 1655+3845	16 55 47.9	+38 45 56	2221 ± 112	17.1	−15.3	BCG	
	HS 1704+3542‡	17 04 51.5	+35 42 15	7602 ± 162	18.0	−17.0	BCG	
	HS 1710+3746	17 10 19.8	+37 46 26	11196 ± 104	17.8	−18.1	BCG	
	HS 1713+4417	17 13 12.3	+44 17 03	8425 ± 80	18.4	−16.9	BCG?	
	HS 1713+4856	17 13 25.3	+48 56 53	8051 ± 44	19.3	−15.9	BCG	
	HS 1716+3817	17 16 34.1	+38 17 31	13062 ± 178	16.9	−19.3	SBN?	**6**

[a] Heliocentric velocities.; [b] absolute magnitudes are not corrected for galactic extinction;
+ APM magnitudes; † objects from the second priority random sample; ‡ galaxies from the APM selected sample.

Table 3. (Continued)

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Table 4. Emission line parameters

#	Name	F(Hβ)^a	$\frac{F(\lambda 3727)}{F(H\beta)}$	$\frac{F(\lambda 5007)}{F(H\beta)}$	$\frac{F(H\alpha)}{F(H\beta)}$	$\frac{F(\lambda 6583)}{F(H\alpha)}$	$\frac{F([SII])}{F(H\alpha)}$	W$_{\lambda 3727}$(Å)	W$_{H\beta}$(Å)	W$_{\lambda 5007}$(Å)
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
	HS 0809+4334	51	1.16	3.96	3.71	0.16	0.20	41	24	92
	HS 0818+4234	+5:					0.75:		+12:	5:
	HS 0822+4049	85	1.45	2.25	4.62	0.14	0.20	72	38	86
	HS 0822+4238	16	2.81	3.94	4.63	0.08	0.16	39	14	55
	HS 0824+4139	11		3.55	4.64	0.08	0.41		8	31
	HS 0828+4305	43	1.63	1.60	5.77	0.26	0.32	16	9	15
	HS 0828+4346	23		6.22	4.39	0.02	0.10		16	103
	HS 0831+4208	8:		2.50	13.12	0.38	0.30		4:	11
	HS 0849+3802‡	36		2.50	7.25	0.34	0.35		7	17
	HS 0849+3639‡	20		2.10	4.45	0.08	0.26		11	22
	HS 0850+3722‡	+5:							+10:	10:
	HS 0855+4118	64		2.59	3.88	0.12	0.25		17	45
	HS 0855+3729‡	28	1.93	0.75	4.00	0.29	0.30	24	14	11
	HS 0900+4318	18		6.06	4.50		0.06:		19	120
	HS 0901+3517‡	2:		11:	16:		0.25:		2:	19
	HS 0904+3752‡	+13					0.08:		+26	8:
	HS 0907+4201	4:		1.75:	9.50:	0.29	0.32		4:	7:
	HS 0912+4427	+10				0.20	0.20:		+35	18:
	HS 0912+4259	37	5.46	1.70	6.03	0.21	0.30	68	15	26
	HS 0912+4433*	16		4.91	7.50	0.17	0.02:		11	53
	HS 0912+3900‡	+40				0.35	0.28		+31	2:
	HS 0923+4021*	16		5.94	4.44	0.04	0.20		15	78
	HS 0927+4159	30		3.13	4.23	0.09	0.29		22	75
	HS 0934+4150	32		4.75	4.78	0.06	0.17		24	113
	HS 0934+4256	16:		5.31:	9.25:	0.24	0.71		2:	11
	HS 0935+4135	7:	1:	0.71:	2.86:	0.60	0.15	10:	10:	8:
	HS 0938+4215	27		3.39	3.54	0.05	0.28		20	69
	HS 0939+4124	61	1.43	7.89	4.39	0.01	0.04	175	171	1367
	HS 0940+4052	133	3.65	4.48	3.73	0.05	0.17	91	41	196
	HS 0941+4024A	12		3.11	8.09	0.40	0.40		4	13
	HS 0941+4024B	51		2.37	4.96	0.18	0.24		17	41
	HS 0947+3526‡	24		4.29	2.92		0.20		28	118
	HS 0948+3723*	20	1.50	5.30	2.78:	0.05:		375	32	187
	HS 0951+3712‡	6:	4.83:	2.17:	12.50:	0.32	0.36	10:	2:	5:
	HS 0952+4024‡	18		1.28	4.22	0.17	0.32		9	11
	HS 0953+3628	77	2.53	3.83	2.64	0.10	0.19	92	42	177
	HS 0954+3615‡	6:		6.17:	6.33:	0.08	0.50:		2:	18
	HS 0956+3702‡	14	9.14	2.14	7.36	0.28	0.32	39	5	11
	HS 0958+3654‡	+95				0.53	0.44		+16	
	HS 0958+3637*	4:		5.05:	9.77:		0.40		3:	14

Table 4. (Continued)

#	Name	$F(H\beta)^a$	$\frac{F(\lambda3727)}{F(H\beta)}$	$\frac{F(\lambda5007)}{F(H\beta)}$	$\frac{F(H\alpha)}{F(H\beta)}$	$\frac{F(\lambda6583)}{F(H\alpha)}$	$\frac{F([SII])}{F(H\alpha)}$	$W_{\lambda3727}$(Å)	$W_{H\beta}$(Å)	$W_{\lambda5007}$(Å)
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
	HS 0958+3718*	190	0.24	6.46	2.25	0.03		21	64	430
	HS 1004+3730‡	+81				0.42	0.40		+38	3
	HS 1008+3620‡	13		6.15	6.31	0.07	0.22		10	64
	HS 1011+3604	26	1.81	2.08	3.85	0.16	0.29	97	15	33
	HS 1014+3535‡	5:			16:	0.37	0.25		2:	
	HS 1016+3733*	27	3.39	4.61	5.35	0.68	0.56	23	5	22
	HS 1021+4839	+53				0.33	0.12:		+33	6:
	HS 1025+3707A	37		3.78	2.92	0.07	0.12		25	99
	HS 1025+3707B	+42				0.43:			+62	
	HS 1025+3658‡	24		6.08	4.75	0.11	0.18		17	106
	HS 1025+4057*	16:			2.19:	0.29	0.49:		19:	
	HS 1027+4728	+24				0.42:	0.21:		+11	
	HS 1028+3716*	32	1.00	2.88	5.63	0.20	0.30	60	13	35
	HS 1032+4600*	45		2.88	5.81	0.15	0.32		11	34
	HS 1043+3852‡	5:		7.60:	5.60:		0.11:		6:	54
	HS 1122+3800‡	2:		9.50:	11.00:	0.05:	0.09:		6:	57
	HS 1148+3732*	37	2.54	2.16	2.59	0.21	0.35	50	21	47
	HS 1159+3940	14	4.07	1.79	2.71	0.21	0.18:	61	21	40
	HS 1200+3824	+12				0.25:			+16	
	HS 1201+3535	14	2.86	5.79	3.14	0.02:	0.20:	50	28	180
	HS 1202+3732	27	4.66	4.60	3.50	0.04:		43	12	54
	HS 1204+3945*	6:		4.45:	9.06:	0.10	0.24		5:	23
	HS 1205+3940	33	1.67	5.55	3.36	0.05	0.09	81	36	237
	HS 1206+4012	+9:							+10:	
	HS 1210+3831*	39	4.64	2.51	3.51	0.14	0.36	59	12	32
	HS 1211+3807*	40		2.75	5.63	0.12	0.18		8	22
	HS 1211+4012	12	5.33	6.67	3.75	0.04:	0.13:	60	11	79
	HS 1212+3640*	70	3.43	2.54	6.27	0.08	0.25	79	14	36
	HS 1213+3636A	237	0.41	3.48	2.55	0.05	0.08	66	281	1094
	HS 1213+3636B	31		3.43	3.96	0.04:	0.18		35	145
	HS 1215+3850*	97	3.05	3.34	4.54	0.07	0.22	52	16	53
	HS 1216+3743*	+39					0.23		+65	31
	HS 1218+3945*	28	3.46	3.79	2.29	0.14	0.19	173	28	106
	HS 1220+3845	19	1.27	1.43	2.85	0.62	0.21	13	13	19
	HS 1223+3938*	48		6.25	4.46	0.07	0.15		17	109
	HS 1224+4027	22	3.82	3.50	3.50	0.09	0.19	50	17	60
	HS 1225+4129	17	2.47	3.06	3.82	0.14	0.38	32	14	44
	HS 1226+4113	21	2.19	5.10	5.19	0.05:	0.12:	65	12	60
	HS 1232+3834*	16	3.19	8.06	4.63	0.09:	0.34:	130	7	62
	HS 1232+3947*	87		3.54	2.90		0.15		36	136
	HS 1235+4232*	7:		2.14:	1.86:	0.15:	0.38:		24:	55:
	HS 1236+3821*	55	5.82	5.25	5.47	0.02	0.19	124	7	41

Table 4. (Continued)

#	Name (1)	F(Hβ)[a] (2)	$\frac{F(\lambda3727)}{F(H\beta)}$ (3)	$\frac{F(\lambda5007)}{F(H\beta)}$ (4)	$\frac{F(H\alpha)}{F(H\beta)}$ (5)	$\frac{F(\lambda6583)}{F(H\alpha)}$ (6)	$\frac{F([SII])}{F(H\alpha)}$ (7)	$W_{\lambda3727}$(Å) (8)	$W_{H\beta}$(Å) (9)	$W_{\lambda5007}$(Å) (10)
	HS 1236+4532	+3:							+3:	
	HS 1237+3900	40	2.33	5.35	2.90	0.07:	0.11:	79	39	227
	HS 1238+4229	15	5.07	4.93	4.53	0.09	0.25:	86	18	91
	HS 1242+4058A*	47		2.94	4.09	0.08	0.27		18	53
	HS 1244+3647*	110	0.89	4.01	2.55	0.03	0.32	22	37	150
	HS 1245+4413	32		2.16	2.06	0.18	0.26		24	57
	HS 1300+4225	15:	2.20:	2.20:	2.33:			57	28:	64
	HS 1302+4058	32	6.44	3.75	1.88		0.22	137	29	117
	HS 1302+4101	22	2.09	3.59	3.45	0.09	0.20	55	25	98
	HS 1305+4049	32	2.11	3.35	2.20	0.10	0.16	36	21	77
	HS 1306+4146	64	1.55	5.98	2.56	0.02:	0.09:	237	146	889
	HS 1306+4151	7:	2.71:	1.00:				17:	6:	6:
	HS 1306+4232*	18		2.39	2.78		0.50		13	31
	HS 1307+4225	26	0.83	5.52	3.86		0.10:	18	31	164
	HS 1309+4446	19		2.00	3.11		0.32		9	19
	HS 1310+4224	14	5.79	2.07	3.07		0.30	219	9	21
	HS 1311+3628	448	1.29	5.18	2.92	0.05	0.09	299	393	2100
	HS 1311+4507	52	2.58	4.33	2.75	0.08	0.15	116	76	335
	HS 1311+4204	18	4.22	2.44	3.00	0.19	0.26	66	16	40
	HS 1311+3924	179	1.89	4.38	2.30	0.04	0.13	97	61	290
	HS 1313+4440	140		2.05	4.97	0.49	0.63		12	25
	HS 1313+4246	30	1.93	4.80	3.57	0.05:	0.13:	57	36	180
	HS 1313+4041*	28	2.82	5.07	3.50	0.05:	0.13:	44	19	102
	HS 1313+4521	117	1.19	3.84	3.11	0.03:	0.12	92	77	306
	HS 1314+4145	214		0.82	4.07	0.34	0.16		44	38
	HS 1315+4129	+25				0.32:	0.40:	15:	+16	
	HS 1316+3839*	48	3.13	3.17	3.29	0.13	0.29	83	25	78
	HS 1317+4521B*	48		0.48	1.89	0.14:	0.05:		24	12
	HS 1322+3708*†	20	2.60	4.35	2.85	0.16	0.19	86	35	155
	HS 1323+3946*	103	1.80	2.32	3.79	0.31	0.15	53	15	35
	HS 1330+3651*	188	1.92	5.02	2.71	0.01	0.13	504	84	456
	HS 1334+3957*	60	1.28	5.22	3.12	0.02	0.10	99	96	548
	HS 1336+3650	36		3.80	4.76	0.07	0.34		14	54
	HS 1354+3635*	154	3.01	3.36	4.22	0.06	0.22	159	23	77
	HS 1402+3650	107	1.38	3.03	3.27	0.12	0.21	61	27	86
	HS 1408+4227	120	0.82	7.58	2.78	0.02:	0.04:	99	219	1615
	HS 1408+4522*	125		2.97	2.96	0.12	0.24		35	110
	HS 1410+3627*	13:		3.46:	4.46:	0.05:	0.26		13:	41
	HS 1412+4203*	+16				0.44	0.25	13:	+19	
	HS 1414+4034	8:	4:	5.13:	3.25:	0.08:	0.15:	41	12:	69
	HS 1417+4433	44	2.18	5.73	3.07	0.02:	0.12:	167	61	364

Table 4. (Continued)

#	Name (1)	F(Hβ)^a (2)	$\frac{F(\lambda3727)}{F(H\beta)}$ (3)	$\frac{F(\lambda5007)}{F(H\beta)}$ (4)	$\frac{F(H\alpha)}{F(H\beta)}$ (5)	$\frac{F(\lambda6583)}{F(H\alpha)}$ (6)	$\frac{F([SII])}{F(H\alpha)}$ (7)	$W_{\lambda3727}$(Å) (8)	$W_{H\beta}$(Å) (9)	$W_{\lambda5007}$(Å) (10)
	HS 1419+3639	69	3.74	2.43	1.96	0.13	0.31	186	41	102
	HS 1420+3726*†	34	2.53	3.21	2.56		0.34	69	35	120
	HS 1423+3945†	70		4.56	2.24	0.03	0.11		136	638
	HS 1423+4054	25	4.12	2.72	1.96	0.08	0.20	64	18	54
	HS 1427+4309*	34	2.24	4.09	2.91	0.08	0.26	54	23	99
	HS 1428+4056	+13				0.08:	0.15:		+21	7:
	HS 1430+4040	121	2.94	0.79	2.78:	0.13:	0.05:	281	51	45
	HS 1433+4411	45		3.27	3.58	0.06	0.24		10	34
	HS 1433+4245*	+97				1.20		17:	+41	
	HS 1437+4002	30	1.47	6.13	3.53	0.03:	0.11:	114	60	340
	HS 1441+4122*	22	5.16	2.85	5.09	0.15	0.26	47	11	32
	HS 1443+4027	61	1.87	2.97	3.26	0.15	0.19	163	19	56
	HS 1447+4402	8:	3.75:	1.50:	5.50:	0.25:	0.30:	22:	5:	8:
	HS 1448+4518*	+53				0.15	0.31	19	+44	8:
	HS 1450+3844*	72	2.31	3.46	3.53	0.07	0.21	132	23	82
	HS 1450+4234	29		0.72	2.93	0.27	0.40		13	10
	HS 1458+4129	+28				0.17	0.40		+29	
	HS 1514+4602*	+62				0.46	0.19:		+61	
	HS 1537+4411*	19		3.91	3.30	0.03	0.23		12	50
	HS 1545+4055	161	1.27	5.66	2.70	0.02:	0.05:	181	163	983
	HS 1545+4459	12	7.92	3.75	5.33	0.13	0.28	76	7	29
	HS 1546+4319*	41	3.80	1.81	4.23	0.33	0.24	25	7	14
	HS 1603+3759‡	19	2.16	4.89	2.42			104	43	228
	HS 1613+3902	19		4.37	2.84		0.13		12	52
	HS 1616+3627†	120		0.63	3.57	0.16			11	8
	HS 1625+3847	7:		3.00:	4.57:		0.25		8:	25
	HS 1633+4703*	170	3.96	3.29	3.38	0.07	0.23	76	16	55
	HS 1645+4339	23		4.43	4.83	0.06	0.22		11	51
	HS 1646+4003B	21:		1.62:	3.33:	0.14			13:	19:
	HS 1649+3621*†	21:	1.86:	3.57:	3.43:			37:	13:	48
	HS 1650+3706	66	2.36	5.55	2.39	0.08	0.09	275	124	647
	HS 1653+4340	6:	3.83:	3.17:	6.00:	0.44:	0.44:	21:	4:	13:
	HS 1655+3845*	49	2.31	4.14	2.76		0.19	60	30	125
	HS 1704+3542‡	4:	12.54:	8.16:	6.16:		0.22:	60	5:	46
	HS 1710+3746*	19	2.84	3.11	3.74	0.07	0.23	110	24	68
	HS 1713+4417	15	4.27	3.07	5.93	0.22	0.25	24	5	16
	HS 1713+4856	140	1.04	5.91	3.08	0.04	0.05	147	101	632
	HS 1716+3817	9:		1.67:	10.11:	0.13	0.32		3:	5:

^{a} Flux in 10^{-16} ergs s^{-1} cm^{-2}; * objects observed during non-photometric conditions;

† objects from the second priority random sample; ‡ galaxies from the APM selected sample;

+ parameters for Hα emission line; : parameters with less confident values.

Table 5. Coordinates, Redshifts and Magnitudes of QSOs

1c#	1cName	1cα (1950)	1cδ (1950)	1cz [a]	1cm_B	1cDetected **emission lines**
	1c (1)	1c (2)	1c (3)	1c (4)	1c (5)	1c (6)
	HS 0936+4204	09 36 59.6	+42 04 24	3.3211	18.3	Lyα 1216 Å, SiIV/OIV] 1400 Å, CIV 1549 Å
	HS 1009+3706	10 09 02.4	+37 06 31	3.0393	17.6	Lyα 1216 Å, SiIV/OIV] 1400 Å, CIV 1549 Å
	HS 1224+4410	12 24 55.1	+44 10 03	3.0718	19.5	Lyα 1216 Å, CIV 1549 Å
	HS 1301+4233	13 01 47.0	+42 33 30	0.8460:	+18.7	MgII 2798 Å
	HS 1541+4452	15 41 23.0	+44 52 27	2.3588	18.8	Lyα 1216 Å, SiIV/OIV] 1400 Å, CIV 1549 Å

[a] Observed redshift; [+] APM magnitudes; : less confident values.

Table 6. Galaxies without detected emission lines

#	Name	α (1950)	δ (1950)	v_0^a	m_B	M_B^b	Absorption lines
	1c (1)	1c (2)	1c (3)	1c (4)	1c (5)	1c (6)	1c (7)
	HS 1008+3538	10 08 00.1	+35 38 02	13968:	17.4	–19.0	Hβ, MgIb, Hα
	HS 1207+3745	12 07 38.0	+37 45 53	13381:	18.8	–17.5	Hβ, Hα
	HS 1408+3524[†]	14 08 32.6	+35 24 23	19933	16.8	–20.3	CaK, CaH, G_{band}, Hβ, MgIb, CaFe5269, NaD
	HS 1419+4026	14 19 50.0	+40 26 28	14235:	18.1	–18.3	G_{band}, Hα

[a] Heliocentric velocities; [b] absolute magnitudes are not corrected for galactic extinction;

[†] objects from the second priority random sample; : less confident values.

Table 7. Stars

#	Name	α (1950)	δ (1950)	m_B	Type	Spectral features
	1c (1)	1c (2)	1c (3)	1c (4)	1c (5)	1c (6)
	HS 0852+4257	08 52 23.3	+42 57 22	+20.2	A	H_γ, H_β, H_α
	HS 0945+4851	09 45 00.5	+48 51 00	+18.0	F-G	H_β, MgIb, CaFe5269, H_α
	HS 1012+3815	10 12 45.4	+38 15 01	17.2	A	H_γ, H_β, H_α
	HS 1013+3804†	10 13 05.6	+38 04 27	17.7	F	H_β, NaD, H_α
	HS 1029+4020†	10 29 10.6	+40 20 35	16.7	G	MgIb, CaFe5269, NaD, H_α
	HS 1158+3920	11 58 04.6	+39 20 32	+18.2	A-F	H_γ, H_β, MgIb, NaD, H_α
	HS 1411+4312	14 11 12.8	+43 12 53	19.6	G	G_{band}, MgIb, NaD, H_α
	HS 1424+4029	14 24 57.9	+40 29 28	19.8	F	G_{band}, H_β, MgIb, NaD, H_α
	HS 1609+4941	16 09 46.6	+49 41 45	19.1	G	G_{band}, MgIb, CaFe5269, H_α
	HS 1630+3620	16 30 33.0	+36 20 17	19.1	G	G_{band}, MgIb, CaFe5269, NaD, H_α
	HS 1640+4158	16 40 18.0	+41 58 42	18.3	G	G_{band}, MgIb, NaD
	HS 1652+3820	16 52 47.9	+38 20 16	17.7	G	G_{band}, MgIb, CaFe5269, NaD, H_α
	HS 1653+4430	16 53 49.9	+44 30 10	19.7	F	CaK, CaH, G_{band}, H_β, MgIb, NaD, H_α
	HS 1656+4309	16 56 02.7	+43 09 01	19.2	A	H_γ, H_β, H_α
	HS 1657+4419	16 57 28.6	+44 19 26	20.0	F	CaK, CaH, H_γ, H_β, H_α
	HS 1710+4343	17 10 04.2	+43 43 47	+18.2	F	H_β, MgIb, H_α
	HS 1711+3804	17 11 31.4	+38 04 32	+19.1	F	H_β, MgIb, NaD, H_α
	HS 1716+3544	17 16 14.0	+35 44 07	18.9	F	G_{band}, H_γ, H_β, MgIb, CaFe5269, H_α
	HS 1720+3927	17 20 13.6	+39 27 11	18.1	F-G	G_{band}, H_β, MgIb, NaD, H_α
	HS 1733+3749	17 33 41.9	+37 49 13	18.4	G	G_{band}, H_β, MgIb, NaD, H_α
	HS 1733+3915‡	17 33 45.8	+39 15 08	18.1	F-G	H_β, MgIb, NaD, H_α

† objects from the second priority random sample; ‡ galaxies from the APM selected sample;

+ APM magnitudes.