1 The Mass Function of an X-Ray Flux-Limited Sample of Galaxy Clusters

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Tables 3 and 4.
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Table 1.1. Cluster properties

Cluster (1)	R.A. (2)	Dec. (3)	z (4)	$n_{\rm H}$ (5)	$C_{\rm X}$ (6)	Δ (7)	$r_{\rm X}$ (8)	$f_{\rm X}$ (9)	$L_{\rm X}$ (10)	$L_{\rm Bol}$ (11)	Obs (12)	Ref (13)
A0085	10.4632	−9.3054	0.0556	3.58	3.488	0.6	2.13	7.429	9.789	24.448	P	2
A0119	14.0649	−1.2489	0.0440	3.10	1.931	0.9	2.68	4.054	3.354	7.475	P	1
A0133	15.6736	−21.8806	0.0569	1.60	1.058	0.8	1.52	2.121	2.944	5.389	P	3
NGC507	20.9106	33.2553	0.0165	5.25	1.093	1.3	0.88	2.112	0.247	0.326	P	5
A0262	28.1953	36.1528	0.0161	5.52	4.366	3.8	1.48	9.348	1.040	1.533	R	6
A0400	44.4152	6.0170	0.0240	9.38	1.146	1.1	1.85	2.778	0.686	1.033	P	8
A0399	44.4684	13.0462	0.0715	10.58	1.306	5.4	3.18	3.249	7.070	17.803	R	6
A0401	44.7384	13.5796	0.0748	10.19	2.104	1.1	3.81	5.281	12.553	34.073	P	6
A3112	49.4912	−44.2367	0.0750	2.53	1.502	1.1	2.18	3.103	7.456	16.128	P	1
FORNAX	54.6686	−35.3103	0.0046	1.45	5.324	5.6	0.53	9.020	0.082	0.107	P+R	4
2A0335	54.6690	9.9713	0.0349	18.64	3.028	0.8	1.54	9.162	4.789	7.918	P	10
IIIZw54	55.3225	15.4076	0.0311	16.68	0.708	7.7	1.27	2.001	0.831	1.226	R	11
A3158	55.7282	−53.6301	0.0590	1.06	1.909	1.5	1.94	3.794	5.638	12.779	P	1
A0478	63.3554	10.4661	0.0900	15.27	1.827	0.6	3.12	5.151	17.690	49.335	P	6
NGC1550	64.9066	2.4151	0.0123	11.59	1.979	5.4	0.71	4.632	0.302	0.407	R	13
EXO0422	66.4637	−8.5581	0.0390	6.40	1.390	6.2	1.32	3.085	2.015	3.283	R	10
A3266	67.8410	−61.4403	0.0594	1.48	2.879	0.7	2.99	5.807	8.718	23.663	P	4
A0496	68.4091	−13.2605	0.0328	5.68	3.724	0.7	1.78	8.326	3.837	7.306	P	8
A3376	90.4835	−39.9741	0.0455	5.01	1.115	1.4	2.86	2.450	2.174	4.077	P	4
A3391	96.5925	−53.6938	0.0531	5.42	0.999	1.9	1.98	2.225	2.681	5.857	P	4
A3395s	96.6920	−54.5453	0.0498	8.49	0.836	3.8	1.45	2.009	2.131	4.471	P	4
A0576	110.3571	55.7639	0.0381	5.69	1.374	6.8	2.32	3.010	1.872	3.518	R	6
A0754	137.3338	−9.6797	0.0528	4.59	1.537	1.6	1.91	3.366	3.990	11.967	P	6
HYDRA-A	139.5239	−12.0942	0.0538	4.86	2.179	0.6	1.66	4.776	5.930	11.520	P	13
A1060	159.1784	−27.5212	0.0114	4.92	4.653	3.3	0.95	9.951	0.554	0.945	R	6
A1367	176.1903	19.7030	0.0216	2.55	2.947	0.8	1.55	6.051	1.206	2.140	P	8
MKW4	181.1124	1.8962	0.0200	1.86	1.173	1.7	1.23	2.268	0.390	0.543	P	10
ZwCl1215	184.4220	3.6604	0.0750	1.64	1.081	1.3	2.55	2.183	5.240	11.656	P	19
NGC4636	190.7084	2.6880	0.0037	1.75	3.102	7.2	0.39	4.085	0.023	0.027	R	13
A3526	192.1995	−41.3087	0.0103	8.25	11.655	2.2	1.64	27.189	1.241	2.238	R	15
A1644	194.2900	−17.4029	0.0474	5.33	1.853	5.1	1.85	4.030	3.876	7.882	R	8
A1650	194.6712	−1.7572	0.0845	1.54	1.218	6.6	3.17	2.405	7.308	17.955	R	6
A1651	194.8419	−4.1947	0.0860	1.71	1.254	1.2	2.03	2.539	8.000	18.692	P	22
COMA	194.9468	27.9388	0.0232	0.89	17.721	1.4	4.04	34.438	7.917	22.048	R	8
NGC5044	198.8530	−16.3879	0.0090	4.91	3.163	0.5	0.56	5.514	0.193	0.246	P	24
A1736	201.7238	−27.1765	0.0461	5.36	1.631	6.3	2.47	3.537	3.223	5.682	R	25
A3558	201.9921	−31.5017	0.0480	3.63	3.158	0.5	2.11	6.720	6.615	14.600	P	1
A3562	203.3984	−31.6678	0.0499	3.91	1.367	0.9	2.01	2.928	3.117	6.647	P	4
A3571	206.8692	−32.8553	0.0397	3.93	5.626	0.7	2.35	12.089	8.132	20.310	P	21
A1795	207.2201	26.5944	0.0616	1.20	3.132	0.3	2.14	6.270	10.124	27.106	P	6
A3581	211.8852	−27.0153	0.0214	4.26	1.603	3.2	0.64	3.337	0.657	0.926	P	28
MKW8	220.1596	3.4717	0.0270	2.60	1.255	8.4	1.90	2.525	0.789	1.355	R	29
A2029	227.7331	5.7450	0.0767	3.07	3.294	0.6	2.78	6.938	17.313	50.583	P	6
A2052	229.1846	7.0211	0.0348	2.90	2.279	1.0	1.14	4.713	2.449	4.061	P	6
MKW3S	230.4643	7.7059	0.0450	3.15	1.578	1.0	1.39	3.299	2.865	5.180	P	10
A2065	230.6096	27.7120	0.0721	2.84	1.227	6.1	3.09	2.505	5.560	12.271	R	6
A2063	230.7734	8.6112	0.0354	2.92	2.038	1.3	2.13	4.232	2.272	4.099	P	8

Table 1.1—Continued

Cluster (1)	R.A. (2)	Dec. (3)	z (4)	$n_{\rm H}$ (5)	$C_{\rm X}$ (6)	Δ (7)	$r_{\rm X}$ (8)	$f_{\rm X}$ (9)	$L_{\rm X}$ (10)	$L_{\rm Bol}$ (11)	Obs (12)	Ref (13)
A2142	239.5824	27.2336	0.0899	4.05	2.888	0.9	3.09	6.241	21.345	64.760	P	6
A2147	240.5628	15.9586	0.0351	3.29	2.623	3.2	1.87	5.522	2.919	6.067	P	8
A2163	243.9433	−6.1436	0.2010	12.27	0.773	1.5	3.15	2.039	34.128	123.200	P	31
A2199	247.1586	39.5477	0.0302	0.84	5.535	1.8	2.37	10.642	4.165	7.904	R	8
A2204	248.1962	5.5733	0.1523	5.94	1.211	1.6	3.29	2.750	26.938	68.989	P	6
A2244	255.6749	34.0578	0.0970	2.07	1.034	2.1	2.64	2.122	8.468	21.498	P	6
A2256	255.9884	78.6481	0.0601	4.02	2.811	1.4	3.09	6.054	9.322	22.713	P	6
A2255	258.1916	64.0640	0.0800	2.51	0.976	1.2	3.22	2.022	5.506	13.718	P	6
A3667	303.1362	−56.8419	0.0560	4.59	3.293	0.7	2.81	7.201	9.624	24.233	P	1
S1101	348.4941	−42.7268	0.0580	1.85	1.237	0.9	1.64	2.485	3.597	5.939	P	35
A2589	350.9868	16.7753	0.0416	4.39	1.200	1.3	1.46	2.591	1.924	3.479	P	37
A2597	351.3318	−12.1246	0.0852	2.50	1.074	1.2	1.43	2.213	6.882	13.526	P	6
A2634	354.6201	27.0269	0.0312	5.17	1.096	1.6	1.79	2.415	1.008	1.822	P	6
A2657	356.2334	9.1952	0.0404	5.27	1.148	0.9	1.52	2.535	1.771	3.202	P	8
A4038	356.9322	−28.1415	0.0283	1.55	2.854	1.3	1.35	5.694	1.956	3.295	P	4
A4059	359.2541	−34.7591	0.0460	1.10	1.599	1.3	1.72	3.170	2.872	5.645	P	36
Clusters from the extended sample not included in *HIFLUGCS*.												
A2734	2.8389	−28.8539	0.0620	1.84	0.710	2.5	1.74	1.434	2.365	4.357	P	1
A2877	17.4796	−45.9225	0.0241	2.10	0.801	1.2	1.06	1.626	0.405	0.714	P	4
NGC499	20.7971	33.4587	0.0147	5.25	0.313	2.5	0.30	0.479	0.045	0.051	P	5
AWM7	43.6229	41.5781	0.0172	9.21	7.007	2.0	1.58	16.751	2.133	3.882	R	7
PERSEUS	49.9455	41.5150	0.0183	15.69	40.723	0.8	3.30	113.731	16.286	40.310	R	9
S405	58.0078	−82.2315	0.0613	7.65	0.781	8.2	2.14	1.800	2.899	5.574	R	12
3C129	72.5602	45.0256	0.0223	67.89	1.512	5.6	1.61	10.566	2.242	4.996	R	10
A0539	79.1560	6.4421	0.0288	12.06	1.221	1.3	1.37	3.182	1.135	1.935	P	14
S540	85.0265	−40.8431	0.0358	3.53	0.788	5.0	0.84	1.611	0.887	1.353	R	4
A0548w	86.3785	−25.9340	0.0424	1.79	0.136	5.4	0.73	0.234	0.183	0.240	P	15
A0548e	87.1596	−25.4692	0.0410	1.88	0.771	1.8	2.12	1.551	1.117	1.870	P	15
A3395n	96.9005	−54.4447	0.0498	5.42	0.699	3.9	1.37	1.555	1.650	3.461	P	4
UGC03957	115.2481	55.4319	0.0340	4.59	0.936	6.0	0.94	1.975	0.980	1.531	R	16
PKS0745	116.8837	−19.2955	0.1028	43.49	1.268	1.0	2.44	6.155	27.565	70.604	P	17
A0644	124.3553	−7.5159	0.0704	5.14	1.799	1.0	4.02	3.994	8.414	22.684	P	6
S636	157.5151	−35.3093	0.0116	6.42	3.102	4.9	1.18	5.869	0.341	0.446	R	18
A1413	178.8271	23.4051	0.1427	1.62	0.636	1.6	2.39	1.289	11.090	28.655	P	6
M49	187.4437	7.9956	0.0044	1.59	1.259	1.0	0.27	1.851	0.015	0.019	P	15
A3528n	193.5906	−29.0130	0.0540	6.10	0.560	2.3	1.51	1.263	1.581	2.752	P	1
A3528s	193.6708	−29.2254	0.0551	6.10	0.756	1.6	1.35	1.703	2.224	3.746	P	20
A3530	193.9211	−30.3451	0.0544	6.00	0.438	2.8	1.55	0.987	1.252	2.317	P	21
A3532	194.3375	−30.3698	0.0539	5.96	0.797	1.8	1.64	1.797	2.235	4.483	P	21
A1689	197.8726	−1.3408	0.1840	1.80	0.712	1.1	2.36	1.454	20.605	60.707	P	23
A3560	203.1119	−33.1355	0.0495	3.92	0.714	2.5	2.00	1.519	1.601	2.701	P	26
A1775	205.4582	26.3820	0.0757	1.00	0.654	1.8	2.02	1.290	3.175	5.735	P	27
A1800	207.3408	28.1038	0.0748	1.18	0.610	7.9	1.98	1.183	2.840	5.337	R	28
A1914	216.5035	37.8268	0.1712	0.97	0.729	1.4	2.35	1.454	17.813	56.533	P	6
NGC5813	225.2994	1.6981	0.0064	4.19	0.976	6.7	0.17	1.447	0.025	0.029	R	13
NGC5846	226.6253	1.6089	0.0061	4.25	0.569	2.3	0.21	0.851	0.014	0.016	P	13

Table 1.1—Continued

Cluster (1)	R.A. (2)	Dec. (3)	z (4)	$n_{\rm H}$ (5)	$C_{\rm X}$ (6)	Δ (7)	$r_{\rm X}$ (8)	$f_{\rm X}$ (9)	$L_{\rm X}$ (10)	$L_{\rm Bol}$ (11)	Obs (12)	Ref (13)
A2151w	241.1465	17.7252	0.0369	3.36	0.754	1.9	1.46	1.568	0.917	1.397	P	8
A3627	243.5546	−60.8430	0.0163	20.83	9.962	3.0	2.20	31.084	3.524	8.179	R	30
TRIANGUL	249.5758	−64.3557	0.0510	12.29	4.294	0.7	2.54	11.308	12.508	37.739	P	32
OPHIUCHU	258.1115	−23.3634	0.0280	20.14	11.642	2.0	2.29	35.749	11.953	37.391	R	33
ZwCl1742	266.0623	32.9893	0.0757	3.56	0.889	4.4	1.83	1.850	4.529	9.727	R	34
A2319	290.2980	43.9484	0.0564	8.77	5.029	1.0	3.57	12.202	16.508	47.286	P	6
A3695	308.6991	−35.8135	0.0890	3.56	0.836	9.2	2.58	1.739	5.882	12.715	R	1
IIZw108	318.4752	2.5564	0.0494	6.63	0.841	7.3	2.20	1.884	1.969	3.445	R	5
A3822	328.5438	−57.8668	0.0760	2.12	0.964	7.3	3.18	1.926	4.758	9.877	R	1
A3827	330.4869	−59.9641	0.0980	2.84	0.953	5.8	1.78	1.955	7.963	20.188	R	1
A3888	338.6255	−37.7343	0.1510	1.20	0.546	2.4	1.52	1.096	10.512	30.183	P	23
A3921	342.5019	−64.4286	0.0936	2.80	0.626	1.7	2.43	1.308	4.882	11.023	P	12
HCG94	349.3041	18.7060	0.0417	4.55	0.820	1.0	2.09	1.775	1.324	2.319	P	36
RXJ2344	356.0723	−4.3776	0.0786	3.54	0.653	1.4	1.61	1.385	3.661	7.465	P	12

Note. — Column (1) lists the cluster name. Names have been truncated to at most eight characters to preserve the compactness of the table. Columns (2) and (3) give the equatorial coordinates of the cluster center used for the regional selection for the epoch J2000 in decimal degrees. Column (4) gives the heliocentric cluster redshift. Column (5) lists the column density of neutral galactic hydrogen in units of 10^{20} atoms cm^{-2}. Column (6) gives the count rate in the channel range 52–201 which corresponds to about (the energy resolution of the PSPC is limited) the energy range $0.5-2.0$ keV in units of cts s^{-1}. Column (7) lists the relative 1-σ Poissonian error of the count rate, the flux, and the luminosity in percent. Column (8) gives the significance radius in h_{50}^{-1} Mpc. Column (9) lists the flux in the energy range $0.1-2.4$ keV in units of 10^{-11} ergs s^{-1} cm^{-2}. Column (10) gives the luminosity in the energy range $0.1-2.4$ keV in units of $h_{50}^{-2}\,10^{44}$ ergs s^{-1}. Column (11) gives the bolometric luminosity (energy range $0.01-40$ keV) in units of $h_{50}^{-2}\,10^{44}$ ergs s^{-1}. Column (12) indicates whether a RASS (R) or a pointed (P) ROSAT PSPC observation has been used. Column (13) lists the code for the redshift reference decoded below.

References. — (1) Katgert et al. 1996. (2) Mazure et al. 1996. (3) Median of 9 galaxy redshifts compiled from Lauberts & Valentijn 1989; Merrifield & Kent 1991; Loveday et al. 1996; Way et al. 1998. (4) Abell et al. 1989. (5) Huchra et al. 1999. (6) Struble & Rood 1987. (7) dell'Antonio et al. 1994. (8) Zabludoff et al. 1993. (9) Poulain et al. 1992. (10) NED Team 1992. (11) Böhringer et al. 2000. (12) De Grandi et al. 1999. (13) de Vaucouleurs et al. 1991. (14) Zabludoff et al. 1990. (15) den Hartog & Katgert 1996. (16) Michel & Huchra 1988. (17) Yan & Cohen 1995. (18) Garcia 1995. (19) Ebeling et al. 1998. (20) Median of 8 galaxy redshifts compiled from de Vaucouleurs et al. 1991; Quintana et al. 1995; Katgert et al. 1998. (21) Vettolani et al. 1990. (22) Allen et al. 1992. (23) Teague et al. 1990. (24) da Costa et al. 1998. (25) Dressler & Shectman 1988. (26) Melnick & Moles 1987. (27) Median of 13 galaxy redshifts compiled from Kirshner et al. 1983; Zabludoff et al. 1990; NED Team 1992; Davoust & Considere 1995; Oegerle et al. 1995. (28) Postman et al. 1992. (29) Andersen & Owen 1994. (30) Kraan-Korteweg et al. 1996. (31) Elbaz et al. 1995. (32) Edge & Stewart 1991. (33) Lahav et al. 1989. (34) Ulrich 1976. (35) Stocke et al. 1991. (36) Hickson et al. 1992. (37) Beers et al. 1991.

Table 1.2. Cluster properties

Cluster (1)	β (2)	r_c (3)	T_X (4)	M_{500} (5)	r_{500} (6)	M_{200} (7)	r_{200} (8)	M_A (9)	Ref (10)
A0085	$0.532^{+0.004}_{-0.004}$	83^{+3}_{-3}	$6.90^{+0.40}_{-0.40}$	$6.84^{+0.66}_{-0.66}$	$1.68^{+0.05}_{-0.06}$	$10.80^{+1.12}_{-1.04}$	$2.66^{+0.09}_{-0.09}$	12.21	1
A0119	$0.675^{+0.026}_{-0.023}$	501^{+28}_{-26}	$5.60^{+0.30}_{-0.30}$	$6.23^{+0.92}_{-0.76}$	$1.63^{+0.08}_{-0.07}$	$10.76^{+1.50}_{-1.39}$	$2.66^{+0.11}_{-0.13}$	12.24	1
A0133	$0.530^{+0.004}_{-0.004}$	45^{+2}_{-2}	$3.80^{+2.00}_{-0.90}$	$2.78^{+2.51}_{-0.95}$	$1.24^{+0.30}_{-0.16}$	$4.41^{+4.00}_{-1.52}$	$1.97^{+0.47}_{-0.27}$	6.71	9
NGC507	$0.444^{+0.005}_{-0.005}$	19^{+1}_{-1}	$1.26^{+0.07}_{-0.07}$	$0.41^{+0.04}_{-0.04}$	$0.66^{+0.02}_{-0.02}$	$0.64^{+0.07}_{-0.06}$	$1.04^{+0.04}_{-0.04}$	1.86	2
A0262	$0.443^{+0.018}_{-0.017}$	42^{+12}_{-10}	$2.15^{+0.06}_{-0.06}$	$0.90^{+0.10}_{-0.09}$	$0.86^{+0.03}_{-0.03}$	$1.42^{+0.15}_{-0.13}$	$1.35^{+0.05}_{-0.04}$	3.17	2
A0400	$0.534^{+0.014}_{-0.013}$	154^{+9}_{-9}	$2.31^{+0.14}_{-0.14}$	$1.28^{+0.17}_{-0.15}$	$0.96^{+0.04}_{-0.04}$	$2.07^{+0.30}_{-0.25}$	$1.53^{+0.08}_{-0.06}$	4.10	2
A0399	$0.713^{+0.137}_{-0.095}$	450^{+132}_{-100}	$7.00^{+0.40}_{-0.40}$	$10.00^{+3.73}_{-2.48}$	$1.91^{+0.21}_{-0.18}$	$16.64^{+6.61}_{-4.32}$	$3.07^{+0.36}_{-0.30}$	16.24	1
A0401	$0.613^{+0.010}_{-0.010}$	246^{+11}_{-10}	$8.00^{+0.40}_{-0.40}$	$10.27^{+1.08}_{-0.93}$	$1.92^{+0.07}_{-0.05}$	$16.59^{+1.62}_{-1.62}$	$3.07^{+0.09}_{-0.10}$	16.21	1
A3112	$0.576^{+0.006}_{-0.006}$	61^{+3}_{-3}	$5.30^{+0.70}_{-1.00}$	$5.17^{+1.17}_{-1.45}$	$1.53^{+0.11}_{-0.16}$	$8.22^{+1.79}_{-2.31}$	$2.43^{+0.16}_{-0.25}$	10.16	1
FORNAX	$0.804^{+0.098}_{-0.084}$	174^{+17}_{-15}	$1.20^{+0.04}_{-0.04}$	$0.87^{+0.22}_{-0.16}$	$0.84^{+0.07}_{-0.06}$	$1.42^{+0.36}_{-0.27}$	$1.35^{+0.11}_{-0.09}$	3.20	2
2A0335	$0.575^{+0.004}_{-0.003}$	33^{+1}_{-1}	$3.01^{+0.07}_{-0.07}$	$2.21^{+0.10}_{-0.09}$	$1.15^{+0.02}_{-0.02}$	$3.51^{+0.16}_{-0.15}$	$1.83^{+0.03}_{-0.03}$	5.76	2
IIIZw54	$0.887^{+0.320}_{-0.151}$	289^{+124}_{-73}	$(2.16^{+0.35}_{-0.30})$	$2.36^{+2.22}_{-0.90}$	$1.18^{+0.29}_{-0.17}$	$3.93^{+3.83}_{-1.54}$	$1.89^{+0.48}_{-0.29}$	6.32	11
A3158	$0.661^{+0.025}_{-0.022}$	269^{+20}_{-19}	$5.77^{+0.10}_{-0.05}$	$7.00^{+0.52}_{-0.42}$	$1.69^{+0.04}_{-0.03}$	$11.29^{+0.95}_{-0.68}$	$2.69^{+0.08}_{-0.06}$	12.61	3
A0478	$0.613^{+0.004}_{-0.004}$	98^{+2}_{-2}	$8.40^{+0.80}_{-1.40}$	$11.32^{+1.78}_{-2.81}$	$1.99^{+0.10}_{-0.18}$	$17.89^{+2.95}_{-4.35}$	$3.13^{+0.18}_{-0.27}$	17.12	1
NGC1550	$0.554^{+0.049}_{-0.037}$	45^{+15}_{-11}	$1.43^{+0.04}_{-0.03}$	$0.69^{+0.12}_{-0.09}$	$0.78^{+0.04}_{-0.04}$	$1.09^{+0.20}_{-0.14}$	$1.23^{+0.07}_{-0.06}$	2.64	5
EXO0422	$0.722^{+0.104}_{-0.071}$	142^{+40}_{-30}	$2.90^{+0.90}_{-0.60}$	$2.89^{+2.39}_{-1.14}$	$1.26^{+0.28}_{-0.19}$	$4.63^{+3.84}_{-1.82}$	$2.00^{+0.44}_{-0.31}$	6.96	9
A3266	$0.796^{+0.020}_{-0.019}$	564^{+21}_{-20}	$8.00^{+0.50}_{-0.50}$	$14.17^{+1.94}_{-1.84}$	$2.14^{+0.09}_{-0.10}$	$23.76^{+3.23}_{-2.91}$	$3.45^{+0.15}_{-0.14}$	20.47	1
A0496	$0.484^{+0.003}_{-0.003}$	30^{+1}_{-1}	$4.13^{+0.08}_{-0.08}$	$2.76^{+0.11}_{-0.11}$	$1.24^{+0.02}_{-0.02}$	$4.35^{+0.18}_{-0.17}$	$1.96^{+0.03}_{-0.03}$	6.66	2
A3376	$1.054^{+0.101}_{-0.083}$	755^{+69}_{-60}	$4.00^{+0.40}_{-0.40}$	$6.32^{+2.11}_{-1.59}$	$1.64^{+0.17}_{-0.15}$	$11.96^{+3.82}_{-2.98}$	$2.75^{+0.26}_{-0.25}$	13.20	1
A3391	$0.579^{+0.026}_{-0.024}$	234^{+24}_{-22}	$5.40^{+0.60}_{-0.60}$	$5.18^{+1.31}_{-1.08}$	$1.53^{+0.12}_{-0.11}$	$8.41^{+2.13}_{-1.81}$	$2.44^{+0.19}_{-0.19}$	10.35	1
A3395s	$0.964^{+0.275}_{-0.167}$	604^{+173}_{-118}	$5.00^{+0.30}_{-0.30}$	$8.82^{+4.79}_{-2.61}$	$1.83^{+0.29}_{-0.20}$	$15.34^{+8.79}_{-4.74}$	$2.99^{+0.49}_{-0.35}$	15.42	1
A0576	$0.825^{+0.432}_{-0.185}$	394^{+221}_{-125}	$4.02^{+0.07}_{-0.07}$	$5.36^{+4.42}_{-1.66}$	$1.55^{+0.34}_{-0.18}$	$8.96^{+8.01}_{-2.91}$	$2.50^{+0.60}_{-0.31}$	10.86	3
A0754	$0.698^{+0.027}_{-0.024}$	239^{+17}_{-16}	$9.50^{+0.70}_{-0.40}$	$16.37^{+2.91}_{-1.84}$	$2.25^{+0.13}_{-0.09}$	$26.19^{+4.45}_{-2.95}$	$3.57^{+0.18}_{-0.15}$	21.94	1
HYDRA-A	$0.573^{+0.003}_{-0.003}$	50^{+1}_{-1}	$4.30^{+0.40}_{-0.40}$	$3.76^{+0.58}_{-0.55}$	$1.38^{+0.07}_{-0.07}$	$5.94^{+0.91}_{-0.84}$	$2.17^{+0.11}_{-0.10}$	8.21	1
A1060	$0.607^{+0.040}_{-0.034}$	94^{+15}_{-13}	$3.24^{+0.06}_{-0.06}$	$2.66^{+0.34}_{-0.28}$	$1.23^{+0.05}_{-0.04}$	$4.24^{+0.55}_{-0.47}$	$1.95^{+0.08}_{-0.08}$	6.54	2
A1367	$0.695^{+0.035}_{-0.032}$	383^{+24}_{-22}	$3.55^{+0.08}_{-0.08}$	$3.34^{+0.36}_{-0.32}$	$1.32^{+0.05}_{-0.04}$	$5.69^{+0.63}_{-0.56}$	$2.14^{+0.08}_{-0.07}$	8.08	2
MKW4	$0.440^{+0.004}_{-0.005}$	11^{+1}_{-1}	$1.71^{+0.09}_{-0.09}$	$0.64^{+0.06}_{-0.06}$	$0.76^{+0.02}_{-0.03}$	$1.00^{+0.10}_{-0.09}$	$1.20^{+0.04}_{-0.03}$	2.51	2
ZwCl1215	$0.819^{+0.038}_{-0.034}$	431^{+28}_{-25}	$(5.58^{+0.89}_{-0.78})$	$8.79^{+3.00}_{-2.29}$	$1.83^{+0.19}_{-0.18}$	$14.52^{+4.92}_{-3.67}$	$2.93^{+0.30}_{-0.27}$	14.91	11
NGC4636	$0.491^{+0.032}_{-0.027}$	6^{+3}_{-2}	$0.76^{+0.01}_{-0.01}$	$0.22^{+0.03}_{-0.02}$	$0.53^{+0.02}_{-0.02}$	$0.35^{+0.04}_{-0.04}$	$0.85^{+0.03}_{-0.03}$	1.24	4
A3526	$0.495^{+0.011}_{-0.010}$	37^{+5}_{-4}	$3.68^{+0.06}_{-0.06}$	$2.39^{+0.15}_{-0.13}$	$1.18^{+0.02}_{-0.02}$	$3.78^{+0.23}_{-0.18}$	$1.87^{+0.04}_{-0.03}$	6.07	2
A1644	$0.579^{+0.111}_{-0.074}$	300^{+128}_{-92}	$4.70^{+0.90}_{-0.70}$	$4.10^{+2.64}_{-1.41}$	$1.42^{+0.26}_{-0.18}$	$6.73^{+4.54}_{-2.38}$	$2.27^{+0.43}_{-0.31}$	8.98	10
A1650	$0.704^{+0.131}_{-0.081}$	281^{+104}_{-71}	$6.70^{+0.80}_{-0.80}$	$9.62^{+4.91}_{-2.92}$	$1.88^{+0.28}_{-0.21}$	$15.60^{+8.08}_{-4.85}$	$3.01^{+0.45}_{-0.35}$	15.56	1
A1651	$0.643^{+0.014}_{-0.013}$	181^{+10}_{-10}	$6.10^{+0.40}_{-0.40}$	$7.45^{+1.00}_{-0.95}$	$1.73^{+0.07}_{-0.08}$	$11.91^{+1.60}_{-1.52}$	$2.75^{+0.12}_{-0.13}$	13.01	1
COMA	$0.654^{+0.019}_{-0.021}$	344^{+22}_{-21}	$8.38^{+0.34}_{-0.34}$	$11.99^{+1.28}_{-1.29}$	$2.03^{+0.07}_{-0.08}$	$19.38^{+2.08}_{-1.97}$	$3.22^{+0.11}_{-0.11}$	18.01	2
NGC5044	$0.524^{+0.002}_{-0.003}$	11^{+1}_{-1}	$1.07^{+0.01}_{-0.01}$	$0.41^{+0.01}_{-0.01}$	$0.66^{+0.01}_{-0.01}$	$0.65^{+0.01}_{-0.01}$	$1.04^{+0.01}_{-0.01}$	1.87	2
A1736	$0.542^{+0.147}_{-0.092}$	374^{+178}_{-130}	$3.50^{+0.40}_{-0.40}$	$2.19^{+1.23}_{-0.74}$	$1.15^{+0.18}_{-0.15}$	$3.78^{+2.41}_{-1.34}$	$1.87^{+0.34}_{-0.25}$	6.22	1
A3558	$0.580^{+0.006}_{-0.005}$	224^{+5}_{-5}	$5.50^{+0.40}_{-0.40}$	$5.37^{+0.70}_{-0.64}$	$1.55^{+0.07}_{-0.06}$	$8.64^{+1.12}_{-1.03}$	$2.46^{+0.10}_{-0.10}$	10.56	1
A3562	$0.472^{+0.006}_{-0.006}$	99^{+5}_{-5}	$5.16^{+0.16}_{-0.16}$	$3.68^{+0.24}_{-0.23}$	$1.37^{+0.03}_{-0.03}$	$5.83^{+0.38}_{-0.36}$	$2.16^{+0.05}_{-0.04}$	8.10	3
A3571	$0.613^{+0.010}_{-0.010}$	181^{+7}_{-7}	$6.90^{+0.20}_{-0.20}$	$8.33^{+0.56}_{-0.53}$	$1.79^{+0.04}_{-0.04}$	$13.31^{+0.90}_{-0.85}$	$2.85^{+0.06}_{-0.06}$	14.04	1
A1795	$0.596^{+0.003}_{-0.002}$	78^{+1}_{-1}	$7.80^{+1.00}_{-1.00}$	$9.75^{+2.01}_{-1.90}$	$1.89^{+0.12}_{-0.14}$	$15.39^{+3.17}_{-2.92}$	$2.99^{+0.19}_{-0.20}$	15.46	1
A3581	$0.543^{+0.024}_{-0.022}$	35^{+5}_{-4}	$1.83^{+0.04}_{-0.04}$	$0.96^{+0.09}_{-0.09}$	$0.87^{+0.02}_{-0.03}$	$1.52^{+0.16}_{-0.13}$	$1.38^{+0.05}_{-0.04}$	3.30	5
MKW8	$0.511^{+0.098}_{-0.059}$	107^{+70}_{-42}	$3.29^{+0.23}_{-0.22}$	$2.10^{+0.86}_{-0.52}$	$1.14^{+0.13}_{-0.10}$	$3.33^{+1.45}_{-0.83}$	$1.79^{+0.24}_{-0.17}$	5.60	5
A2029	$0.582^{+0.004}_{-0.004}$	83^{+2}_{-2}	$9.10^{+1.00}_{-1.00}$	$11.82^{+2.14}_{-1.99}$	$2.01^{+0.11}_{-0.12}$	$18.79^{+3.40}_{-3.17}$	$3.20^{+0.18}_{-0.19}$	17.62	1
A2052	$0.526^{+0.005}_{-0.005}$	37^{+2}_{-2}	$3.03^{+0.04}_{-0.04}$	$1.95^{+0.07}_{-0.06}$	$1.10^{+0.02}_{-0.01}$	$3.10^{+0.09}_{-0.11}$	$1.75^{+0.01}_{-0.02}$	5.30	3
MKW3S	$0.581^{+0.008}_{-0.007}$	66^{+3}_{-3}	$3.70^{+0.20}_{-0.20}$	$3.06^{+0.32}_{-0.30}$	$1.29^{+0.05}_{-0.04}$	$4.84^{+0.51}_{-0.47}$	$2.03^{+0.07}_{-0.07}$	7.16	1
A2065	$1.162^{+0.734}_{-0.282}$	690^{+360}_{-186}	$5.50^{+0.40}_{-0.40}$	$13.44^{+16.12}_{-5.17}$	$2.10^{+0.63}_{-0.31}$	$23.37^{+29.87}_{-9.42}$	$3.43^{+1.09}_{-0.54}$	20.21	1
A2063	$0.561^{+0.011}_{-0.011}$	110^{+7}_{-6}	$3.68^{+0.11}_{-0.11}$	$2.84^{+0.23}_{-0.19}$	$1.25^{+0.04}_{-0.03}$	$4.54^{+0.36}_{-0.31}$	$1.99^{+0.06}_{-0.04}$	6.86	2

Table 1.2—Continued

Cluster (1)	β (2)	r_c (3)	T_X (4)	M_{500} (5)	r_{500} (6)	M_{200} (7)	r_{200} (8)	M_A (9)	Ref (10)
A2142	$0.591^{+0.006}_{-0.006}$	154^{+6}_{-6}	$9.70^{+1.50}_{-1.10}$	$13.29^{+3.45}_{-2.41}$	$2.10^{+0.17}_{-0.14}$	$21.04^{+5.46}_{-3.69}$	$3.31^{+0.26}_{-0.20}$	19.05	1
A2147	$0.444^{+0.071}_{-0.046}$	238^{+103}_{-65}	$4.91^{+0.28}_{-0.28}$	$2.99^{+0.92}_{-0.63}$	$1.28^{+0.12}_{-0.10}$	$4.84^{+1.64}_{-1.03}$	$2.03^{+0.21}_{-0.15}$	7.21	2
A2163	$0.796^{+0.030}_{-0.028}$	519^{+31}_{-29}	$13.29^{+0.64}_{-0.64}$	$31.85^{+4.24}_{-3.74}$	$2.81^{+0.12}_{-0.11}$	$51.99^{+6.96}_{-6.13}$	$4.49^{+0.19}_{-0.18}$	34.18	3
A2199	$0.655^{+0.019}_{-0.021}$	139^{+10}_{-10}	$4.10^{+0.08}_{-0.08}$	$4.21^{+0.33}_{-0.29}$	$1.43^{+0.04}_{-0.03}$	$6.73^{+0.52}_{-0.51}$	$2.27^{+0.06}_{-0.06}$	8.92	2
A2204	$0.597^{+0.008}_{-0.007}$	67^{+3}_{-3}	$7.21^{+0.25}_{-0.25}$	$8.67^{+0.67}_{-0.57}$	$1.82^{+0.05}_{-0.04}$	$13.79^{+0.96}_{-1.00}$	$2.89^{+0.06}_{-0.08}$	14.34	3
A2244	$0.607^{+0.016}_{-0.015}$	126^{+11}_{-10}	$7.10^{+5.00}_{-2.20}$	$8.65^{+11.47}_{-3.89}$	$1.82^{+0.59}_{-0.33}$	$13.78^{+18.02}_{-6.20}$	$2.89^{+0.92}_{-0.52}$	14.33	10
A2256	$0.914^{+0.054}_{-0.047}$	587^{+40}_{-37}	$6.60^{+0.40}_{-0.40}$	$12.83^{+2.38}_{-2.00}$	$2.07^{+0.12}_{-0.11}$	$21.81^{+4.07}_{-3.54}$	$3.36^{+0.19}_{-0.20}$	19.34	1
A2255	$0.797^{+0.033}_{-0.030}$	593^{+35}_{-32}	$6.87^{+0.20}_{-0.20}$	$10.90^{+1.15}_{-0.95}$	$1.96^{+0.07}_{-0.05}$	$18.65^{+2.01}_{-1.67}$	$3.18^{+0.11}_{-0.09}$	17.54	3
A3667	$0.541^{+0.008}_{-0.008}$	279^{+10}_{-10}	$7.00^{+0.60}_{-0.60}$	$6.88^{+1.08}_{-1.02}$	$1.68^{+0.08}_{-0.09}$	$11.19^{+1.76}_{-1.65}$	$2.69^{+0.13}_{-0.14}$	12.50	1
S1101	$0.639^{+0.006}_{-0.007}$	56^{+2}_{-2}	$3.00^{+1.20}_{-0.70}$	$2.58^{+1.76}_{-0.88}$	$1.22^{+0.23}_{-0.16}$	$4.08^{+2.78}_{-1.39}$	$1.92^{+0.36}_{-0.25}$	6.38	9
A2589	$0.596^{+0.013}_{-0.012}$	118^{+8}_{-7}	$3.70^{+2.20}_{-1.10}$	$3.14^{+3.44}_{-1.35}$	$1.29^{+0.37}_{-0.22}$	$5.01^{+5.41}_{-2.15}$	$2.06^{+0.56}_{-0.35}$	7.33	9
A2597	$0.633^{+0.008}_{-0.008}$	58^{+2}_{-2}	$4.40^{+0.40}_{-0.70}$	$4.52^{+0.72}_{-1.11}$	$1.47^{+0.07}_{-0.14}$	$7.14^{+1.14}_{-1.72}$	$2.31^{+0.11}_{-0.20}$	9.27	1
A2634	$0.640^{+0.051}_{-0.043}$	364^{+44}_{-39}	$3.70^{+0.28}_{-0.28}$	$3.15^{+0.78}_{-0.60}$	$1.29^{+0.10}_{-0.09}$	$5.35^{+1.34}_{-1.04}$	$2.10^{+0.17}_{-0.14}$	7.77	2
A2657	$0.556^{+0.008}_{-0.007}$	119^{+5}_{-5}	$3.70^{+0.30}_{-0.30}$	$2.83^{+0.43}_{-0.39}$	$1.25^{+0.06}_{-0.06}$	$4.52^{+0.68}_{-0.62}$	$1.99^{+0.10}_{-0.09}$	6.84	1
A4038	$0.541^{+0.009}_{-0.008}$	59^{+4}_{-4}	$3.15^{+0.03}_{-0.03}$	$2.16^{+0.09}_{-0.08}$	$1.14^{+0.02}_{-0.02}$	$3.41^{+0.14}_{-0.11}$	$1.80^{+0.03}_{-0.01}$	5.67	3
A4059	$0.582^{+0.010}_{-0.010}$	90^{+5}_{-5}	$4.40^{+0.30}_{-0.30}$	$3.95^{+0.52}_{-0.48}$	$1.40^{+0.06}_{-0.06}$	$6.30^{+0.83}_{-0.76}$	$2.22^{+0.09}_{-0.09}$	8.52	1
Clusters from the extended sample not included in *HIFLUGCS*.									
A2734	$0.624^{+0.034}_{-0.029}$	212^{+26}_{-23}	$(3.85^{+0.62}_{-0.54})$	$3.49^{+1.25}_{-0.89}$	$1.34^{+0.15}_{-0.12}$	$5.67^{+1.98}_{-1.48}$	$2.14^{+0.22}_{-0.21}$	7.97	11
A2877	$0.566^{+0.029}_{-0.025}$	190^{+19}_{-17}	$3.50^{+2.20}_{-1.10}$	$2.61^{+3.32}_{-1.24}$	$1.22^{+0.39}_{-0.23}$	$4.24^{+5.28}_{-2.00}$	$1.95^{+0.60}_{-0.38}$	6.57	10
NGC499	$0.722^{+0.034}_{-0.030}$	24^{+2}_{-2}	$0.72^{+0.03}_{-0.02}$	$0.36^{+0.05}_{-0.04}$	$0.63^{+0.03}_{-0.02}$	$0.58^{+0.08}_{-0.06}$	$1.00^{+0.04}_{-0.04}$	1.73	4
AWM7	$0.671^{+0.027}_{-0.025}$	173^{+18}_{-15}	$3.75^{+0.09}_{-0.09}$	$3.79^{+0.38}_{-0.32}$	$1.38^{+0.05}_{-0.04}$	$6.08^{+0.62}_{-0.52}$	$2.19^{+0.08}_{-0.06}$	8.35	2
PERSEUS	$0.540^{+0.006}_{-0.004}$	64^{+2}_{-2}	$6.79^{+0.12}_{-0.12}$	$6.84^{+0.29}_{-0.26}$	$1.68^{+0.02}_{-0.02}$	$10.80^{+0.46}_{-0.41}$	$2.66^{+0.04}_{-0.04}$	12.20	2
S405	$0.664^{+0.263}_{-0.133}$	459^{+262}_{-159}	$(4.21^{+0.67}_{-0.59})$	$3.91^{+3.56}_{-1.57}$	$1.40^{+0.33}_{-0.22}$	$6.75^{+6.80}_{-2.81}$	$2.27^{+0.60}_{-0.37}$	9.09	11
3C129	$0.601^{+0.260}_{-0.131}$	318^{+178}_{-107}	$5.60^{+0.70}_{-0.60}$	$5.68^{+5.58}_{-2.29}$	$1.58^{+0.40}_{-0.25}$	$9.30^{+9.51}_{-3.85}$	$2.53^{+0.67}_{-0.42}$	11.08	9
A0539	$0.561^{+0.020}_{-0.018}$	148^{+13}_{-12}	$3.24^{+0.09}_{-0.09}$	$2.33^{+0.21}_{-0.19}$	$1.18^{+0.03}_{-0.03}$	$3.74^{+0.35}_{-0.34}$	$1.87^{+0.05}_{-0.06}$	6.04	2
S540	$0.641^{+0.073}_{-0.051}$	130^{+38}_{-29}	$(2.40^{+0.38}_{-0.34})$	$1.83^{+0.83}_{-0.54}$	$1.08^{+0.14}_{-0.12}$	$2.93^{+1.34}_{-0.87}$	$1.72^{+0.23}_{-0.19}$	5.13	11
A0548w	$0.666^{+0.194}_{-0.111}$	198^{+90}_{-62}	$(1.20^{+0.19}_{-0.17})$	$0.63^{+0.48}_{-0.23}$	$0.76^{+0.16}_{-0.11}$	$1.06^{+0.84}_{-0.41}$	$1.23^{+0.26}_{-0.19}$	2.64	11
A0548e	$0.480^{+0.013}_{-0.013}$	118^{+12}_{-11}	$3.10^{+0.10}_{-0.10}$	$1.74^{+0.15}_{-0.15}$	$1.07^{+0.03}_{-0.04}$	$2.77^{+0.27}_{-0.23}$	$1.68^{+0.06}_{-0.05}$	4.95	3
A3395n	$0.981^{+0.619}_{-0.244}$	672^{+383}_{-203}	$5.00^{+0.30}_{-0.30}$	$8.70^{+9.53}_{-3.19}$	$1.82^{+0.51}_{-0.26}$	$15.47^{+18.82}_{-6.07}$	$2.99^{+0.92}_{-0.46}$	15.55	1
UGC03957	$0.740^{+0.133}_{-0.086}$	142^{+45}_{-33}	$(2.58^{+0.41}_{-0.36})$	$2.51^{+1.50}_{-0.83}$	$1.20^{+0.21}_{-0.15}$	$4.02^{+2.41}_{-1.33}$	$1.91^{+0.33}_{-0.23}$	6.35	11
PKS0745	$0.608^{+0.006}_{-0.006}$	71^{+2}_{-2}	$7.21^{+0.11}_{-0.11}$	$8.88^{+0.35}_{-0.28}$	$1.83^{+0.03}_{-0.01}$	$14.12^{+0.56}_{-0.53}$	$2.91^{+0.04}_{-0.04}$	14.58	3
A0644	$0.700^{+0.011}_{-0.011}$	203^{+7}_{-7}	$7.90^{+0.80}_{-0.80}$	$12.50^{+2.29}_{-2.11}$	$2.06^{+0.12}_{-0.12}$	$19.83^{+3.79}_{-3.23}$	$3.24^{+0.21}_{-0.17}$	18.33	1
S636	$0.752^{+0.217}_{-0.123}$	344^{+130}_{-86}	$(1.18^{+0.19}_{-0.17})$	$0.61^{+0.44}_{-0.22}$	$0.75^{+0.15}_{-0.10}$	$1.16^{+0.90}_{-0.44}$	$1.26^{+0.27}_{-0.18}$	2.93	11
A1413	$0.660^{+0.017}_{-0.015}$	179^{+12}_{-11}	$7.32^{+0.26}_{-0.24}$	$10.20^{+0.93}_{-0.82}$	$1.92^{+0.05}_{-0.05}$	$16.29^{+1.49}_{-1.31}$	$3.05^{+0.09}_{-0.08}$	16.03	3
M49	$0.592^{+0.007}_{-0.007}$	11^{+1}_{-1}	$0.95^{+0.02}_{-0.01}$	$0.41^{+0.02}_{-0.01}$	$0.66^{+0.01}_{-0.01}$	$0.65^{+0.04}_{-0.02}$	$1.04^{+0.02}_{-0.01}$	1.87	4
A3528n	$0.621^{+0.034}_{-0.030}$	178^{+17}_{-16}	$3.40^{+1.66}_{-0.64}$	$2.89^{+2.84}_{-0.94}$	$1.26^{+0.32}_{-0.15}$	$4.65^{+4.54}_{-1.48}$	$2.00^{+0.51}_{-0.23}$	7.00	8
A3528s	$0.463^{+0.013}_{-0.012}$	101^{+9}_{-8}	$3.15^{+0.89}_{-0.59}$	$1.69^{+0.87}_{-0.50}$	$1.05^{+0.16}_{-0.12}$	$2.70^{+1.39}_{-0.80}$	$1.67^{+0.25}_{-0.19}$	4.86	8
A3530	$0.773^{+0.114}_{-0.085}$	421^{+75}_{-61}	$3.89^{+0.27}_{-0.25}$	$4.52^{+1.52}_{-1.05}$	$1.47^{+0.15}_{-0.13}$	$7.64^{+2.72}_{-1.80}$	$2.36^{+0.26}_{-0.20}$	9.82	7
A3532	$0.653^{+0.034}_{-0.029}$	282^{+27}_{-24}	$4.58^{+0.19}_{-0.17}$	$4.77^{+0.70}_{-0.52}$	$1.49^{+0.07}_{-0.05}$	$7.79^{+1.16}_{-0.91}$	$2.38^{+0.12}_{-0.10}$	9.88	7
A1689	$0.690^{+0.011}_{-0.011}$	163^{+7}_{-6}	$9.23^{+0.28}_{-0.28}$	$15.49^{+1.18}_{-1.00}$	$2.20^{+0.06}_{-0.05}$	$24.68^{+1.70}_{-1.76}$	$3.50^{+0.07}_{-0.10}$	21.13	3
A3560	$0.566^{+0.033}_{-0.029}$	256^{+30}_{-27}	$(3.16^{+0.51}_{-0.44})$	$2.16^{+0.79}_{-0.56}$	$1.14^{+0.12}_{-0.11}$	$3.59^{+1.30}_{-0.95}$	$1.84^{+0.20}_{-0.18}$	5.92	11
A1775	$0.673^{+0.026}_{-0.023}$	260^{+19}_{-18}	$3.69^{+0.20}_{-0.11}$	$3.61^{+0.50}_{-0.34}$	$1.36^{+0.06}_{-0.05}$	$5.91^{+0.83}_{-0.56}$	$2.17^{+0.09}_{-0.07}$	8.21	3
A1800	$0.766^{+0.308}_{-0.139}$	392^{+223}_{-132}	$(4.02^{+0.64}_{-0.56})$	$4.75^{+4.64}_{-1.85}$	$1.49^{+0.38}_{-0.23}$	$7.97^{+8.31}_{-3.17}$	$2.39^{+0.65}_{-0.37}$	10.08	11
A1914	$0.751^{+0.018}_{-0.017}$	231^{+11}_{-10}	$10.53^{+0.51}_{-0.50}$	$21.43^{+2.39}_{-2.16}$	$2.46^{+0.09}_{-0.08}$	$33.99^{+4.06}_{-3.43}$	$3.88^{+0.16}_{-0.13}$	26.20	3
NGC5813	$0.766^{+0.179}_{-0.103}$	25^{+9}_{-6}	$(0.52^{+0.08}_{-0.07})$	$0.24^{+0.17}_{-0.08}$	$0.55^{+0.11}_{-0.07}$	$0.38^{+0.27}_{-0.13}$	$0.87^{+0.16}_{-0.12}$	1.32	11
NGC5846	$0.599^{+0.016}_{-0.015}$	7^{+1}_{-1}	$0.82^{+0.01}_{-0.01}$	$0.33^{+0.02}_{-0.02}$	$0.61^{+0.01}_{-0.01}$	$0.53^{+0.03}_{-0.03}$	$0.97^{+0.02}_{-0.01}$	1.63	4

Table 1.2—Continued

Cluster (1)	β (2)	r_c (3)	T_X (4)	M_{500} (5)	r_{500} (6)	M_{200} (7)	r_{200} (8)	M_A (9)	Ref (10)
A2151w	$0.564^{+0.014}_{-0.013}$	68^{+5}_{-5}	$2.40^{+0.06}_{-0.06}$	$1.52^{+0.12}_{-0.10}$	$1.02^{+0.03}_{-0.02}$	$2.42^{+0.18}_{-0.18}$	$1.61^{+0.03}_{-0.04}$	4.51	3
A3627	$0.555^{+0.056}_{-0.044}$	299^{+56}_{-49}	$6.02^{+0.08}_{-0.08}$	$5.63^{+0.95}_{-0.68}$	$1.57^{+0.09}_{-0.06}$	$9.20^{+1.61}_{-1.16}$	$2.51^{+0.14}_{-0.10}$	11.03	3
TRIANGUL	$0.610^{+0.010}_{-0.010}$	279^{+11}_{-10}	$9.60^{+0.60}_{-0.60}$	$13.42^{+1.70}_{-1.55}$	$2.10^{+0.09}_{-0.09}$	$21.54^{+2.73}_{-2.36}$	$3.34^{+0.14}_{-0.11}$	19.35	1
OPHIUCHU	$0.747^{+0.035}_{-0.032}$	279^{+23}_{-22}	$10.26^{+0.32}_{-0.32}$	$20.25^{+2.51}_{-2.10}$	$2.41^{+0.10}_{-0.08}$	$32.43^{+4.05}_{-3.38}$	$3.83^{+0.16}_{-0.13}$	25.32	2
ZwCl1742	$0.717^{+0.073}_{-0.053}$	232^{+46}_{-38}	$(5.23^{+0.84}_{-0.73})$	$6.88^{+3.06}_{-1.96}$	$1.68^{+0.22}_{-0.18}$	$11.05^{+4.93}_{-3.16}$	$2.67^{+0.35}_{-0.28}$	12.42	11
A2319	$0.591^{+0.013}_{-0.012}$	285^{+15}_{-14}	$8.80^{+0.50}_{-0.50}$	$11.16^{+1.39}_{-1.20}$	$1.97^{+0.08}_{-0.07}$	$18.07^{+2.12}_{-2.06}$	$3.16^{+0.11}_{-0.13}$	17.17	1
A3695	$0.642^{+0.259}_{-0.117}$	399^{+254}_{-149}	$(5.29^{+0.85}_{-0.74})$	$5.57^{+5.29}_{-2.16}$	$1.57^{+0.39}_{-0.24}$	$9.32^{+9.56}_{-3.74}$	$2.53^{+0.67}_{-0.40}$	11.12	11
IIZw108	$0.662^{+0.167}_{-0.097}$	365^{+159}_{-105}	$(3.44^{+0.55}_{-0.48})$	$2.96^{+2.00}_{-1.02}$	$1.27^{+0.24}_{-0.16}$	$5.04^{+3.60}_{-1.80}$	$2.06^{+0.40}_{-0.28}$	7.47	11
A3822	$0.639^{+0.150}_{-0.093}$	351^{+160}_{-111}	$(4.90^{+0.78}_{-0.69})$	$4.97^{+3.30}_{-1.75}$	$1.51^{+0.28}_{-0.20}$	$8.26^{+5.64}_{-3.02}$	$2.43^{+0.46}_{-0.34}$	10.29	11
A3827	$0.989^{+0.410}_{-0.192}$	593^{+248}_{-149}	$(7.08^{+1.13}_{-0.99})$	$16.35^{+17.02}_{-6.76}$	$2.25^{+0.60}_{-0.37}$	$27.44^{+29.53}_{-11.46}$	$3.62^{+0.99}_{-0.60}$	22.44	11
A3888	$0.928^{+0.084}_{-0.066}$	401^{+46}_{-40}	$(8.84^{+1.41}_{-1.24})$	$22.00^{+9.28}_{-6.28}$	$2.48^{+0.31}_{-0.26}$	$35.74^{+15.07}_{-10.38}$	$3.96^{+0.49}_{-0.44}$	26.85	11
A3921	$0.762^{+0.036}_{-0.030}$	328^{+26}_{-23}	$5.73^{+0.24}_{-0.23}$	$8.46^{+1.13}_{-0.96}$	$1.80^{+0.08}_{-0.07}$	$13.80^{+1.87}_{-1.59}$	$2.89^{+0.12}_{-0.12}$	14.37	3
HCG94	$0.514^{+0.007}_{-0.006}$	86^{+4}_{-4}	$3.45^{+0.30}_{-0.30}$	$2.28^{+0.36}_{-0.34}$	$1.17^{+0.06}_{-0.06}$	$3.62^{+0.56}_{-0.51}$	$1.84^{+0.09}_{-0.09}$	5.90	6
RXJ2344	$0.807^{+0.033}_{-0.030}$	301^{+20}_{-18}	$(4.73^{+0.76}_{-0.66})$	$6.91^{+2.30}_{-1.69}$	$1.68^{+0.17}_{-0.14}$	$11.27^{+3.74}_{-2.80}$	$2.69^{+0.27}_{-0.25}$	12.58	11

Note. — Column (1) lists the cluster name. Column (2) gives the β parameter value and the corresponding 68 % c.l. statistical uncertainty for two interesting parameters. Column (3) gives the core radius in h_{50}^{-1} kpc and the corresponding uncertainty. Column (4) lists the X-ray temperature along with its error. For some references the temperature uncertainty is quoted at the 90 % confidence level and therefore represents a conservative error estimate. Columns (5) and (7) give M_{500} and M_{200} and their uncertainties in units of $10^{14} h_{50}^{-1} M_\odot$, calculated as described in the paper. Columns (6) and (8) list r_{500} and r_{200} and their uncertainties in h_{50}^{-1} Mpc. Column (9) gives $M_A \equiv M_{tot}(< r_A)$ in units of $10^{14} h_{50}^{-1} M_\odot$. Column (10) lists the code for the temperature reference decoded below. Temperatures for codes 1–7 have been determined with ASCA, code 8 with ROSAT, code 9 with EXOSAT, code 10 with Einstein, and code 11 with a ROSAT–ASCA L_X–T_X relation. Temperatures for code 11 are enclosed in parentheses and the corresponding errors have been calculated using the scatter in the L_X–T_X relation.

References. — (1) Markevitch et al. 1998. (2) Fukazawa et al. 1998. (3) White 2000. (4) Matsushita 1997. (5) Ikebe et al. 2001. (6) Finoguenov et al. 2001. (7) This work. (8) Schindler 1996. (9) Edge & Stewart 1991. (10) David et al. 1993. (11) Estimated from the L_X–T_X relation given by Markevitch 1998.

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