Table 1. Cluster Sample

cluster	redshift	T (keV)	σ (km/s)	β_{spec}
A21	0.0948	4.8	621	0.49
A74	0.0672	2.2	700	1.37
A77	0.0719	3.9	510^{+107}_{-107}	0.41 ± 0.17
A85	0.0559	$6.9^{+0.4}_{-0.4}$	810^{+76}_{-80}	0.58 ± 0.08
A98N	0.1043	3.3	829	1.28
A98S	0.1063	3.2	919	1.62
A115	0.1971	6.6	708^{+69}_{-55}	0.47 ± 0.09
A119	0.0443	$5.1^{+0.8}_{-0.6}$	862^{+165}_{-140}	0.82 ± 0.27
A133	0.0604	$3.8^{+1.7}_{-0.8}$	623	0.63 ± 0.28
A154	0.0652	3.1	833^{+274}_{-140}	1.38 ± 0.91
A168	0.0438	$2.6^{+1.1}_{-0.6}$	528^{+80}_{-80}	0.66 ± 0.08
A193	0.0490	$4.2^{+1.4}_{-0.7}$	751^{+78}_{-64}	0.83 ± 0.10
A194	0.0184	1.9	389^{+54}_{-45}	0.48 ± 0.17
A262	0.0169	$2.4^{+0.3}_{-0.2}$	525^{+47}_{-33}	0.71 ± 0.04
A367	0.0882	4.1	394^{+150}_{-77}	0.23 ± 0.18
A370	0.3730	$7.1^{+1.0}_{-0.8}$	1367^{+310}_{-184}	1.62 ± 0.51
A376	0.0489	$5.1^{+2.7}_{-1.6}$	800	0.77 ± 0.41
A397	0.0325	1.6	447	0.77
A399	0.0718	$5.8^{+0.8}_{-0.7}$	961^{+55}_{71}	0.81 ± 0.07
A400	0.0237	$2.1^{+1.1}_{-0.5}$	599^{+80}_{65}	1.05 ± 0.27
A401	0.0737	$8.0^{+0.4}_{-0.4}$	1012^{+60}_{76}	0.79 ± 0.08
A407	0.0472	2.8	590	0.76
A426	0.0179	$6.2^{+0.6}_{-0.6}$	1138^{+92}_{-80}	1.28 ± 0.08
A458	0.1054	4.4	736^{+86}_{-58}	0.76 ± 0.18
A478	0.0881	$6.8^{+0.9}_{-0.8}$	904^{+261}_{-140}	0.77 ± 0.43
A496	0.0325	$3.9^{+0.1}_{-0.1}$	687^{+89}_{-76}	0.74 ± 0.17
A520	0.2010	$8.6^{+0.9}_{-0.9}$	988^{+76}_{-73}	0.70 ± 0.03
A539	0.0284	$3.0^{+0.5}_{-0.4}$	832^{+77}_{-60}	1.42 ± 0.03
A548	0.0415	$2.4^{+0.7}_{-0.5}$	853^{+62}_{-51}	1.86 ± 0.27
A576	0.0384	$4.3^{+0.3}_{-0.3}$	945^{+93}_{-88}	1.28 ± 0.16
A578	0.0864	$1.7^{+1.5}_{-0.6}$	793	2.28 ± 2.0
A665	0.1816	$8.3^{+0.6}_{-0.6}$	1201	1.07 ± 0.08
A671	0.0494	3.2	994	1.90
A744	0.0732	2.7	814^{+173}_{-106}	1.51 ± 0.64
A754	0.0535	$9.5^{+0.7}_{-0.4}$	1079^{+234}_{-243}	0.75 ± 0.28
A779	0.0230	1.5	473^{+76}_{-52}	0.92 ± 0.29
A851	0.4510	$6.7^{+1.7}_{-1.7}$	1081^{+194}_{-194}	1.07 ± 0.11
A957	0.0440	2.9	659^{+88}_{-56}	0.92 ± 0.25
A963	0.2060	$6.8^{+0.4}_{-0.5}$	1100^{+480}_{-210}	1.09 ± 0.87
A999	0.0317	1.2	278^{+104}_{-49}	0.40 ± 0.30
A1060	0.0126	$3.9^{+0.2}_{-0.2}$	649^{+49}_{-42}	0.66 ± 0.07
A1142	0.0350	$3.7^{+2.0}_{-2.0}$	486^{+81}_{-41}	0.39 ± 0.08
A1146	0.1422	5.0	1028^{+93}_{-96}	1.30 ± 0.24
A1185	0.0314	$3.9^{+2.0}_{-1.1}$	623^{+64}_{-50}	0.61 ± 0.19
A1213	0.0468	2.0	598	1.10
A1291	0.0530	2.6	975	2.25
A1300	0.3071	$5.0^{+3.0}_{-3.0}$	1200	1.77 ± 1.06
A1314	0.0329	$5.0^{+4.5}_{-1.8}$	664^{+171}_{-105}	0.54 ± 0.21

Table 1—Continued

cluster	redshift	T (keV)	σ (km/s)	β_{spec}
A1367	0.0214	$3.7^{+0.2}_{-0.1}$	798^{+75}_{-68}	1.06 ± 0.14
A1377	0.0514	2.7	488	0.54
A1631	0.0464	2.8	702^{+54}_{-46}	1.08 ± 0.17
A1644	0.0467	$4.7^{+0.5}_{-0.5}$	763^{+64}_{-50}	0.76 ± 0.05
A1651	0.0825	$6.1^{+0.4}_{-0.4}$	1006^{+118}_{-92}	1.02 ± 0.17
A1656	0.0231	$8.3^{+0.6}_{-0.5}$	1010^{+51}_{-44}	0.76 ± 0.02
A1689	0.1810	$9.0^{+0.4}_{-0.3}$	1989^{+245}_{-245}	2.70 ± 0.55
A1736	0.0431	$4.6^{+0.6}_{-0.5}$	966^{+107}_{-114}	1.25 ± 0.13
A1750	0.0855	3.7	778^{+97}_{-71}	1.01 ± 0.25
A1767	0.0700	$4.1^{+1.8}_{-1.1}$	933^{+232}_{-134}	1.31 ± 0.08
A1775	0.0696	$4.9^{+2.7}_{-1.4}$	1571^{+666}_{-293}	3.10 ± 0.92
A1795	0.0631	$7.8^{+1.0}_{-1.0}$	834^{+85}_{-76}	0.55 ± 0.04
A1809	0.0789	$3.7^{+1.0}_{-1.0}$	501^{+35}_{-40}	0.42 ± 0.05
A1913	0.0527	2.9	454^{+128}_{-75}	0.44 ± 0.25
A1940	0.1384	4.3	534^{+177}_{-92}	0.41 ± 0.27
A1983	0.0452	2.5	514^{+52}_{-43}	0.65 ± 0.13
A1991	0.0586	$5.4^{+5.9}_{-2.2}$	631^{+147}_{-137}	0.45 ± 0.28
A2009	0.1530	$7.8^{+4.4}_{-2.1}$	804	0.51 ± 0.29
A2029	0.0765	$8.9^{+1.0}_{-1.0}$	1164^{+98}_{-78}	0.94 ± 0.05
A2040	0.0456	2.5	458^{+141}_{-102}	0.52 ± 0.32
A2052	0.0348	$3.4^{+0.5}_{-0.4}$	561^{+87}_{-73}	0.57 ± 0.09
A2063	0.0355	$4.1^{+0.6}_{-0.6}$	679^{+49}_{-46}	0.69 ± 0.00
A2065	0.0722	$8.4^{+1.7}_{-1.2}$	1082^{+204}_{-132}	0.86 ± 0.15
A2079	0.0656	3.2	670^{+113}_{-67}	0.86 ± 0.29
A2092	0.0670	2.5	504^{+115}_{-69}	0.62 ± 0.29
A2107	0.0421	$4.2^{+1.9}_{-1.1}$	622^{+71}_{-64}	0.57 ± 0.13
A2124	0.0654	3.6	809^{+73}_{-60}	1.12 ± 0.20
A2142	0.0899	$9.7^{+1.5}_{-1.1}$	1132^{+110}_{-92}	0.81 ± 0.03
A2147	0.0356	$4.4^{+1.9}_{-0.9}$	821^{+68}_{-55}	0.94 ± 0.25
A2151	0.0370	$3.8^{+0.7}_{-0.5}$	705^{+46}_{-39}	0.80 ± 0.04
A2152	0.0374	2.1	715^{+81}_{-61}	1.50 ± 0.34
A2163	0.2030	$13.9^{+0.7}_{-0.5}$	1680	1.25 ± 0.06
A2197	0.0305	1.6	585^{+72}_{-84}	1.32 ± 0.38
A2199	0.0299	$4.7^{+0.4}_{-0.3}$	686^{+88}_{-62}	0.62 ± 0.11
A2218	0.1710	$7.0^{+1.0}_{-1.0}$	1405^{+163}_{-145}	1.73 ± 0.15
A2244	0.0970	$7.1^{+2.4}_{-1.5}$	1204^{+232}_{-232}	1.26 ± 0.06
A2250	0.0654	2.8	694^{+160}_{-99}	1.06 ± 0.49
A2255	0.0808	$7.3^{+2.2}_{-0.1}$	1221^{+181}_{-126}	1.25 ± 0.01
A2256	0.0581	$6.6^{+0.4}_{-0.4}$	1348^{+86}_{-64}	1.69 ± 0.11
A2271	0.0568	2.9	460	0.45
A2319	0.0559	$9.9^{+0.8}_{-0.7}$	1545^{+95}_{-77}	1.48 ± 0.06
A2390	0.2279	$8.9^{+1.0}_{-0.8}$	1093^{+61}_{-61}	0.83 ± 0.00
A2440	0.0904	9.0	991^{+200}_{-117}	0.67 ± 0.27
A2554	0.1108	4.1	840^{+131}_{-68}	1.06 ± 0.33
A2589	0.0416	$3.7^{+1.9}_{-1.0}$	470^{+120}_{-84}	0.37 ± 0.00
A2593	0.0433	$3.1^{+1.5}_{-0.9}$	698^{+116}_{-69}	0.97 ± 0.15
A2626	0.0573	$2.9^{+2.5}_{-1.0}$	658^{+111}_{-81}	0.92 ± 0.48
A2634	0.0309	$3.4^{+0.2}_{-0.3}$	700^{+97}_{-61}	0.89 ± 0.17

Table 1—Continued

cluster	redshift	T (keV)	σ (km/s)	β_{spec}
A2657	0.0414	$3.4^{+0.5}_{-0.3}$	667	0.80 ± 0.12
A2670	0.0759	$3.9^{+1.6}_{-0.9}$	918^{+65}_{-47}	1.33 ± 0.36
A2744	0.3080	$12.1^{+1.4}_{-1.0}$	1950^{+334}_{-334}	1.93 ± 0.44
A2877	0.0248	$3.5^{+1.1}_{-0.8}$	766^{+62}_{-59}	1.03 ± 0.16
A3112	0.0746	$4.1^{+2.0}_{-1.0}$	552^{+86}_{-63}	0.46 ± 0.08
A3122	0.0605	$5.3^{+0.7}_{-1.0}$	775^{+58}_{-51}	0.70 ± 0.03
A3128	0.0604	3.1	789^{+51}_{-44}	1.23 ± 0.16
A3158	0.0575	$5.5^{+0.3}_{-0.4}$	976^{+70}_{-58}	1.07 ± 0.08
A3266	0.0594	$8.0^{+0.5}_{-0.5}$	1107^{+82}_{-65}	0.94 ± 0.08
A3376	0.0490	$4.0^{+0.4}_{-0.4}$	688^{+68}_{-57}	0.73 ± 0.07
A3389	0.0267	$2.1^{+0.9}_{-0.6}$	595^{+63}_{-47}	1.04 ± 0.22
A3391	0.0553	$5.2^{+1.3}_{-0.9}$	786^{+78}_{-53}	0.73 ± 0.04
A3395	0.0506	$5.0^{+0.3}_{-0.3}$	852^{+84}_{-53}	0.89 ± 0.12
A3526	0.0114	$3.6^{+0.1}_{-0.3}$	791^{+60}_{-62}	1.07 ± 0.08
A3528N	0.0553	3.8	972^{+110}_{-82}	1.53 ± 0.35
A3530	0.0532	3.2	391	0.29
A3532	0.0559	$4.4^{+1.5}_{-1.5}$	738^{+112}_{-85}	0.76 ± 0.03
A3558	0.0475	$3.8^{+1.0}_{-0.5}$	737^{+49}_{-41}	0.61 ± 0.04
A3562	0.0478	$3.8^{+0.8}_{-0.7}$	736^{+49}_{-36}	0.88 ± 0.07
A3571	0.0396	$6.9^{+0.2}_{-0.2}$	1045^{+109}_{-90}	0.97 ± 0.17
A3627	0.0155	$7.0^{+2.0}_{-2.5}$	897	0.71 ± 0.08
A3667	0.0566	$7.0^{+0.6}_{-0.6}$	1092^{+86}_{-70}	1.05 ± 0.08
A3888	0.1680	$7.9^{+0.3}_{-1.0}$	1307^{+100}_{-92}	1.33 ± 0.04
A4059	0.0478	$4.4^{+0.3}_{-0.3}$	845^{+280}_{-140}	1.00 ± 0.59
A4067	0.0959	3.9	499^{+123}_{-74}	0.39 ± 0.19
1E0657	0.2960	$17.4^{+2.5}_{-2.5}$	1213^{+352}_{-191}	0.52 ± 0.23
3C295	0.4600	12.6	1670^{+364}_{-364}	1.36 ± 0.59
AC103	0.3100	6.5	850^{+158}_{-158}	0.68 ± 0.25
AC114	0.3100	$8.1^{+1.0}_{-0.9}$	1649^{+220}_{-220}	2.07 ± 0.30
AC118	0.3080	$12.1^{+1.4}_{-1.0}$	1950^{+334}_{-334}	1.93 ± 0.44
AWM7	0.0176	$3.6^{+0.2}_{-0.2}$	864^{+110}_{-80}	1.28 ± 0.25
CL0016+16	0.5545	$8.0^{+1.0}_{-1.0}$	1234^{+128}_{-128}	1.17 ± 0.10
CL0500−24	0.3270	7.2	1152^{+214}_{-214}	1.13 ± 0.42
Cygnus-A	0.0570	$6.1^{+0.4}_{-0.4}$	1581^{+286}_{-197}	2.52 ± 0.75
Klemola 44	0.0276	$3.3^{+2.6}_{-1.3}$	341^{+106}_{-80}	0.22 ± 0.04
MKW 3S	0.0434	$3.0^{+0.3}_{-0.3}$	610^{+69}_{-52}	0.76 ± 0.10
MKW 4	0.0198	$1.7^{+1.7}_{-0.7}$	525^{+71}_{-48}	1.00 ± 0.73
MS0440+02	0.1965	$5.3^{+1.3}_{-0.8}$	606^{+62}_{-62}	0.43 ± 0.02
MS0451−03	0.5392	$10.2^{+1.5}_{-1.3}$	1371^{+105}_{-105}	1.13 ± 0.01
MS0839+29	0.1928	$4.2^{+0.6}_{-0.3}$	749^{+104}_{-104}	0.82 ± 0.11
MS1008−12	0.3062	$7.3^{+2.5}_{-1.5}$	1054^{+107}_{-107}	0.94 ± 0.13
MS1054−03	0.8260	$14.7^{+4.6}_{-3.5}$	1643^{+806}_{-343}	1.13 ± 0.75
MS1224+20	0.3255	$4.3^{+1.15}_{-1.0}$	802^{+90}_{-90}	0.92 ± 0.04
MS1358+62	0.3283	$6.5^{+0.7}_{-0.6}$	937^{+54}_{-54}	1.00 ± 0.01
MS1455+22	0.2570	$5.6^{+0.2}_{-0.3}$	1133^{+140}_{-140}	1.41 ± 0.27
MS1512+36	0.3726	$3.9^{+0.5}_{-0.3}$	690^{+96}_{-96}	0.75 ± 0.11
MS2137−23	0.3130	$4.4^{+0.4}_{-0.4}$	960	1.29 ± 0.12
RXJ1347−114	0.4510	$11.4^{+1.1}_{-1.0}$	1235	0.82 ± 0.08

Table 1—Continued

cluster	redshift	T (keV)	σ (km/s)	β_{spec}
RXJ1716+67	0.813	$6.7^{+2.0}_{-2.0}$	1892	3.29 ± 0.98
S0805	0.0141	$1.4^{+0.3}_{-0.3}$	541^{+57}_{-43}	1.40 ± 0.38
SC1327−312	0.0495	$3.9^{+2.4}_{-1.3}$	580^{+119}_{-118}	0.54 ± 0.11
SC1329−31	0.0499	3.0	377^{+93}_{-82}	0.29 ± 0.14
Virgo	0.0038	$2.34^{+0.02}_{-0.02}$	573^{+35}_{-30}	0.86 ± 0.10