

**Table 2.** The proper motion and  $\beta_{\text{app}}$ -values of the CJF sources.

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)
Source	Cl	z	Id	q	n.ep.	span [year]	ref.ep.	$X_0 \pm \Delta X_0$ [mas]	$Y_0 \pm \Delta Y_0$ [mas]	$\mu^x \pm \Delta \mu^x$ [mas/year]	$\mu^y \pm \Delta \mu^y$ [mas/year]	$\mu^r \pm \Delta \mu^r$ [mas/year]	$\mu^\circ \pm \Delta \mu^\circ$ [mas/year]	$\mu^{\text{tot}} \pm \Delta \mu^{\text{tot}}$ [mas/year]	$\beta_{\text{app}}^r$ [c]	$\beta_{\text{app}}^\circ$ [c]	$\beta_{\text{app}}^{\text{tot}}$ [c]
0003+380	G, Sy	0.229	C1	2	3	3.21	49806.3333	0.605±0.052	-0.266±0.052	-0.003±0.038	0.008±0.038	-0.006±0.038	-0.006±0.038	0.009±0.038	-0.087±0.554	-0.087±0.554	0.131±0.554
0003+380	G	0.229	C2	2	3	3.21	49806.3333	1.351±0.048	-0.964±0.048	0.124±0.037	-0.053±0.037	0.132±0.037	-0.029±0.035	0.135±0.037	1.925±0.540	-0.423±0.510	1.968±0.540
0003+380	G	0.229	C3	3	2	0.99	49806.3333	3.221±	-1.857±	0.085±	0.118±	0.014±	-0.144±	0.145±	0.204±	-2.100±	2.114±
0003+380	G	0.229	C4	3	2	2.22	49806.3333	4.452±	-2.600±	0.012±	-0.336±	0.180±	0.284±	0.336±	2.625±	4.141±	4.899±
0010+405	G, Sy 1.9	0.255	C1	2	3	6.46	49142.3333	-0.389±0.051	0.660±0.051	-0.013±0.022	0.037±0.022	0.039±0.022	0.008±0.021	0.039±0.022	0.630±0.355	0.129±0.339	0.630±0.355
0010+405	G	0.255	C2	2	3	6.46	49142.3333	-1.179±0.093	2.103±0.093	0.003±0.040	-0.065±0.040	-0.058±0.040	-0.029±0.041	0.065±0.040	-0.936±0.646	-0.468±0.662	1.049±0.646
0014+813	Q	3.366	C1	1	3	3.91	49604.3333	-0.042±0.018	-0.665±0.018	0.002±0.012	0.003±0.012	-0.003±0.012	-0.001±0.012	0.004±0.012	-0.323±1.293	-0.108±1.293	0.431±1.293
0014+813	Q	3.366	C2	1	3	3.91	49604.3333	-1.332±0.024	-4.893±0.024	0.034±0.015	-0.079±0.015	0.067±0.015	-0.054±0.015	0.086±0.015	7.221±1.617	-5.820±1.617	9.269±1.617
0014+813	Q	3.366	C3	2	3	3.91	49604.3333	-1.443±0.030	-8.864±0.030	0.065±0.018	-0.090±0.018	0.078±0.018	-0.079±0.018	0.111±0.018	8.407±1.940	-8.514±1.940	11.963±1.940
0016+731	Q	1.781	C1	1	2	1.07	51239.0000	-0.643±	0.361±	-0.086±	0.185±	0.166±	0.119±	0.204±	12.933±	9.271±	15.893±
0018+729	G		C1	2	3	5.19	50478.6667	-1.117±0.093	0.376±0.093	-0.017±0.044	-0.027±0.044	0.008±0.044	-0.031±0.044	0.032±0.044			
0018+729	G		C2	1	3	5.19	50478.6667	-3.485±0.171	-0.330±0.171	-0.043±0.092	-0.135±0.092	0.055±0.092	-0.131±0.091	0.142±0.092			
0018+729	G		C3	3	3	5.19	50478.6667	-6.265±0.247	0.526±0.247	0.165±0.111	0.019±0.111	-0.163±0.111	0.033±0.108	0.166±0.111			
0022+390	Q	1.946	C1	2	3	6.46	49142.3333	0.608±0.126	-1.137±0.126	0.077±0.043	-0.082±0.043	0.109±0.043	-0.029±0.036	0.113±0.043	8.943±3.528	-2.379±2.954	9.272±3.528
0022+390	Q	1.946	C2	2	3	6.46	49142.3333	0.484±0.174	-3.982±0.174	0.023±0.057	-0.067±0.057	0.070±0.057	-0.015±0.059	0.071±0.057	5.743±4.677	-1.231±4.841	5.826±4.677
0035+367	Q	0.366	C1	2	3	5.30	50916.7500	7.058±0.027	7.981±0.027	-0.074±0.012	0.097±0.012	0.024±0.012	-0.120±0.012	0.122±0.012	0.542±0.271	-2.710±0.271	2.756±0.271
0035+413	Q	1.353	C1	1	3	4.23	50770.0000	1.317±0.033	-0.396±0.033	0.069±0.017	-0.047±0.017	0.080±0.017	0.025±0.016	0.083±0.017	5.234±1.112	1.636±1.047	5.430±1.112
0035+413	Q	1.353	C2	3	2	1.78	50770.0000	2.288±	-0.955±	0.136±	0.105±	0.085±	-0.149±	0.171±	5.561±	-9.749±	11.188±
0035+413	Q	1.353	C3	1	3	4.23	50770.0000	6.534±0.058	-1.946±0.058	0.061±0.032	-0.018±0.032	0.063±0.032	0.000±0.032	0.063±0.032	4.122±2.094	0.000±2.094	4.122±2.094
0035+413	Q	1.353	C4	2	3	4.23	50770.0000	11.573±0.177	-4.879±0.177	0.064±0.106	-0.164±0.106	0.123±0.106	0.126±0.105	0.176±0.106	8.048±6.935	8.244±6.870	11.515±6.935
0102+480	U		C1	2	3	6.46	49142.3333	-0.170±0.019	-0.695±0.019	-0.003±0.007	-0.017±0.007	0.017±0.007	-0.002±0.007	0.017±0.007			
0102+480	U		CC1	1	3	6.46	49142.3333	0.426±0.132	1.441±0.132	0.082±0.053	0.030±0.053	0.052±0.054	0.070±0.053	0.088±0.053			
0108+388	G	0.669	C1	2	3	4.31	51239.0000	-1.162±0.033	-0.275±0.033	-0.016±0.017	0.018±0.017	0.011±0.017	0.021±0.017	0.024±0.017	0.422±0.652	0.805±0.652	0.920±0.652
0108+388	G	0.669	C2	1	3	4.31	51239.0000	-4.870±0.031	-2.732±0.031	0.000±0.016	0.012±0.016	-0.006±0.016	0.011±0.016	0.012±0.016	-0.230±0.614	0.422±0.614	0.460±0.614
0109+351	Q	0.450	C1	2	3	4.66	49986.3333	-0.308±0.049	-0.694±0.049	-0.020±0.024	-0.043±0.024	0.047±0.024	0.001±0.022	0.047±0.024	1.279±0.653	0.027±0.599	1.279±0.653
0109+351	Q	0.450	C2	3	2	2.45	49986.3333	-0.965±	-2.133±	-0.060±	-0.091±	0.107±	0.017±	0.108±	2.913±	0.463±	2.940±
0110+495	Q	0.389	C1	2	3	4.66	49986.3333	-0.328±0.097	0.608±0.097	0.022±0.044	-0.001±0.044	-0.011±0.045	0.019±0.045	0.022±0.044	-0.263±1.074	0.454±1.074	0.525±1.051
0110+495	Q	0.389	C2	1	3	4.66	49986.3333	-1.463±0.025	2.138±0.025	-0.008±0.012	0.032±0.012	0.031±0.012	0.011±0.012	0.033±0.012	0.740±0.287	0.263±0.287	0.788±0.287
0110+495	Q	0.389	C3	3	3	4.66	49986.3333	-4.324±0.498	7.261±0.498	0.042±0.249	0.007±0.249	-0.015±0.249	0.040±0.249	0.042±0.249	-0.358±5.945	0.955±5.945	1.003±5.945
0133+476	Q	0.859	C1	2	3	4.31	51239.0000	-0.431±0.055	0.839±0.055	-0.188±0.060	0.139±0.060	0.210±0.061	-0.104±0.072	0.234±0.060	9.860±2.864	-4.883±3.380	10.986±2.817
0133+476	Q	0.859	C2	1	3	4.31	51239.0000	-1.472±0.003	2.023±0.003	0.044±0.001	0.054±0.001	0.018±0.001	0.067±0.001	0.070±0.001	0.845±0.047	3.146±0.047	3.287±0.047
0145+386	Q	1.442	C1	2	3	4.66	49985.3333	-0.576±0.028	0.687±0.028	0.062±0.016	0.084±0.016	0.025±0.017	0.102±0.016	0.105±0.016	1.706±1.160	6.962±1.092	7.167±1.092
0151+474	Q	1.026	C1	3	3	4.66	49985.3333	-0.093±0.068	-0.496±0.068	0.022±0.052	0.006±0.052	-0.009±0.052	-0.021±0.052	0.023±0.052	-0.484±2.796	-1.129±2.796	1.237±2.796
0151+474	Q	1.026	C2	3	3	4.66	49985.3333	-0.016±0.028	-2.151±0.028	-0.010±0.018	-0.087±0.018	0.087±0.018	0.009±0.017	0.087±0.018	4.679±0.968	0.484±0.914	4.679±0.968
0153+744	Q	2.338	C1	3	2	3.24	51239.0000	4.738±	-2.089±	0.060±	0.028±	0.043±	-0.050±	0.066±	3.901±	-4.535±	5.987±
0153+744	Q	2.338	C2	3	3	4.31	51239.0000	6.054±0.293	-4.845±0.293	-0.017±0.154	0.019±0.154	-0.025±0.154	-0.004±0.154	0.025±0.154	-2.268±13.969	-0.363±13.969	2.268±13.969
0153+744	Q	2.338	C3	3	3	4.31	51239.0000	4.605±0.598	-7.987±0.598	0.395±0.290	0.242±0.290	-0.012±0.292	-0.463±0.291	0.463±0.290	-1.089±26.487	-41.999±26.397	41.999±26.306
0153+744	Q	2.338	C4	3	3	4.31	51239.0000	4.738±0.344	-8.355±0.344	-0.555±0.189	-0.424±0.189	0.095±0.190	0.691±0.192	0.698±0.189	8.617±17.235	62.680±17.416	63.315±17.144
0153+744	Q	2.338	C5	3	3	4.31	51239.0000	4.558±0.122	-9.310±0.122	0.171±0.089	-0.023±0.089	0.096±0.089	-0.143±0.089	0.173±0.089	8.708±8.073	-12.972±8.073	15.693±8.073
0153+744	Q	2.338	C6	3	3	4.31	51239.0000	5.045±0.064	-9.654±0.064	0.015±0.027	-0.017±0.027	0.022±0.027	-0.006±0.027	0.022±0.027	1.996±2.449	-0.544±2.449	1.996±2.449
0212+735	Q	2.367	C1	1	3	4.31	51239.0000	0.479±0.038	-0.220±0.038	0.047±0.021	0.001±0.021	0.042±0.021	-0.021±0.022	0.047±0.021	3.834±1.917	-1.917±2.008	4.291±1.917
0212+735	Q	2.367	C2	3	3	4.31	51239.0000	1.490±0.143	-0.222±0.143	-0.172±0.078	0.038±0.078	-0.176±0.078	-0.012±0.078	0.176±0.078	-16.068±7.121	-1.096±7.121	16.068±7.121
0212+735	Q	2.367	C3	3	3	4.31	51239.0000	2.823±0.113	-0.825±0.113	-0.005±0.063	0.036±0.063	-0.015±0.063	-0.033±0.062	0.036±0.063	-1.369±5.751	-3.013±5.660	3.287±5.751
0212+735	Q	2.367	C4	2	3	4.31	51239.0000	6.350±0.316	-1.298±0.316	-0.022±0.183	-0.010±0.183	-0.019±0.183	0.015±0.183	0.024±0.183	-1.735±16.707	1.369±16.707	2.191±16.707
0212+735	Q	2.367	C5	1	3	4.31	51239.0000	14.138±0.111	-0.383±0.111	0.034±0.059	0.032±0.059	0.033±0.059	-0.033±0.059	0.047±0.059	3.013±5.386	-3.013±5.386	4.291±5.386
0219+428	B	0.444	C1	1	3	2.45	50372.6667	-0.232±0.015	-1.242±0.015	-0.012±0.015	-0.216±0.015	0.215±0.015	-0.027±0.015	0.216±0.015	5.783±0.403	-0.726±0.403	5.810±0.403
0219+428	B	0.444	C2	1	3	2.45	50372.6667	0.079±0.025	-2.530±0.025	0.007±0.024	-0.041±0.024	0.041±0.024	-0.006±0.024	0.042±0.024	1.103±0.646	-0.161±0.646	1.130±0.646
0219+428	B	0.444	C3	1	3	2.45	50372.6667	1.222±0.086	-6.162±0.086	0.111±0.093	-0.189±0.093	0.207±0.093	-0.072±0.092	0.219±0.093	5.568±2.501	-1.937±2.475	5.890±2.501
0219+428	B	0.444	C4	3	3	2.45	50372.6667	3.381±0.193	-13.370±0.193	0.005±0.187	0.522±0.187	-0.505±0.187	-0.133±0.188	0.522±0.187	-13.583±5.030	-3.577±5.057	14.040±5.030
0227+403	Q	1.019	C1	2	4	6.44	50367.0000	0.253±0.033	-0.621±0.033	0.014±0.012	-0.006±0.012	0.011±0.012	-0.011±0.012	0.015±0.012	0.589±0.642	-0.589±0.642	0.803±0.642
0227+403	Q	1.019	C2	1	4	6.44	50367.0000	1.333±0.057	-1.343±0.057	0.031±0.020	-0.068±0.020	0.070±0.020	0.026±0.018	0.075±0.020	3.745±1.070	1.391±0.963	4.013±1.070
0227+403	Q	1.019	C3	1	4	6.44	50367.0000	2.850±0.055	-2.762±0.055	0.061±0.022	-0.025±0.022	0.061±0.022	-0.025±0.021	0.066±0.022	3.264±1		

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)
Source	Cl	z	Id	q	n.ep.	span [year]	ref.ep.	$X_0 \pm \Delta X_0$ [mas]	$Y_0 \pm \Delta Y_0$ [mas]	$\mu^x \pm \Delta \mu^x$ [mas/year]	$\mu^y \pm \Delta \mu^y$ [mas/year]	$\mu^r \pm \Delta \mu^r$ [mas/year]	$\mu^\circ \pm \Delta \mu^\circ$ [mas/year]	$\mu^{\text{tot}} \pm \Delta \mu^{\text{tot}}$ [mas/year]	$\beta_{\text{app}}^r$ [c]	$\beta_{\text{app}}^\circ$ [c]	$\beta_{\text{app}}^{\text{tot}}$ [c]
0248+430	Q	1.310	C2	1	3	3.89	49604.6667	1.075±0.040	-1.573±0.040	0.027±0.024	-0.019±0.024	0.031±0.024	-0.011±0.024	0.033±0.024	1.984±1.536	-0.704±1.536	2.112±1.536
0248+430	Q	1.310	C3	1	3	3.89	49604.6667	3.958±0.150	-4.348±0.150	0.026±0.095	0.030±0.095	-0.005±0.095	-0.039±0.095	0.039±0.095	-0.320±6.081	-2.496±6.081	2.496±6.081
0248+430	Q	1.310	C4	1	3	3.89	49604.6667	7.821±0.123	-10.063±0.123	-0.026±0.072	-0.150±0.072	0.103±0.072	0.113±0.071	0.153±0.072	6.593±4.609	7.233±4.545	9.794±4.609
0249+383	Q	1.122	C1	2	2	2.45	49985.3333	-0.288±	0.655±	0.000±	0.023±	0.021±	0.009±	0.023±	1.206±	0.517±	1.321±
0249+383	Q	1.122	C2	2	2	2.45	49985.3333	-0.800±	2.783±	-0.018±	0.047±	0.050±	-0.005±	0.050±	2.871±	-0.287±	2.871±
0249+383	Q	1.122	C3	2	2	2.45	49985.3333	-1.563±	4.177±	-0.028±	-0.018±	-0.007±	-0.032±	0.033±	-0.402±	-1.837±	1.895±
0249+383	Q	1.122	C4	2	2	2.45	49985.3333	-2.207±	7.065±	-0.015±	0.103±	0.103±	0.016±	0.104±	5.914±	0.919±	5.972±
0251+393	Q	0.289	C1	1	4	4.65	50070.5000	0.531±0.018	0.046±0.018	0.058±0.010	0.018±0.010	0.059±0.010	-0.013±0.009	0.060±0.010	1.071±0.182	-0.236±0.163	1.089±0.182
0251+393	Q	0.289	C2	2	3	2.45	50070.5000	1.392±0.019	0.017±0.019	0.092±0.021	0.039±0.021	0.093±0.021	-0.038±0.022	0.100±0.021	1.688±0.381	-0.690±0.399	1.816±0.381
0307+380	Q	0.816	C1	3	2	2.22	49984.6667	0.714±	1.063±	-0.049±	0.082±	0.040±	-0.086±	0.095±	1.803±	-3.877±	4.283±
0309+411	G, Sy I	0.134	C1	2	4	4.66	50067.5000	-0.804±0.017	0.572±0.017	-0.014±0.008	-0.003±0.008	0.010±0.008	-0.011±0.008	0.015±0.008	0.087±0.070	-0.096±0.070	0.131±0.070
0309+411	G	0.134	C2	2	4	4.66	50067.5000	-1.720±0.029	1.081±0.029	-0.011±0.018	-0.040±0.018	-0.012±0.018	-0.040±0.018	0.042±0.018	-0.105±0.157	-0.348±0.157	0.366±0.157
0309+411	G	0.134	C3	2	4	4.66	50067.5000	-2.425±0.020	1.544±0.020	0.068±0.009	-0.030±0.009	-0.074±0.009	0.011±0.009	0.075±0.009	-0.644±0.078	0.096±0.078	0.653±0.078
0309+411	G	0.134	C4	3	4	4.66	50067.5000	-3.932±0.122	2.562±0.122	0.076±0.091	-0.140±0.091	-0.140±0.091	-0.076±0.092	0.159±0.091	-1.219±0.793	-0.662±0.801	1.385±0.793
0309+411	G	0.134	C5	3	2	1.48	50067.5000	-4.793±0.633	3.549±0.633	-0.039±0.435	-0.069±0.435	-0.010±0.435	-0.079±0.434	0.079±0.435	-0.087±3.788	-0.688±3.780	0.688±3.788
0316+413	G, Sy II	0.018	C1	3	2	3.26	51236.6667	1.082±	-4.431±	0.300±	-0.004±	0.075±	-0.290±	0.300±	0.090±	-0.347±	0.359±
0316+413	G	0.018	C2	3	3	4.33	51236.6667	-1.587±0.100	-7.825±0.100	0.046±0.052	-0.027±0.052	0.017±0.052	-0.050±0.052	0.053±0.052	0.020±0.062	-0.060±0.062	0.063±0.062
0316+413	G	0.018	C3	3	3	4.33	51236.6667	0.720±0.644	-9.973±0.644	-0.051±0.260	0.045±0.260	-0.048±0.260	0.048±0.263	0.068±0.260	-0.057±0.311	0.057±0.311	0.081±0.311
0316+413	G	0.018	C4	3	3	4.33	51236.6667	0.528±0.208	-10.237±0.208	0.817±0.170	-0.033±0.170	0.075±0.171	-0.814±0.170	0.817±0.170	0.090±0.205	-0.975±0.204	0.978±0.204
0316+413	G	0.018	C5	3	3	4.33	51236.6667	0.096±0.124	-12.319±0.124	0.145±0.061	0.079±0.061	-0.078±0.061	-0.145±0.062	0.165±0.061	-0.093±0.073	-0.174±0.074	0.198±0.073
0340+362	Q	1.485	C1	3	3	4.66	49986.0000	0.444±0.150	0.733±0.150	-0.031±0.075	-0.046±0.075	-0.055±0.075	-0.002±0.077	0.055±0.075	-3.827±5.218	-0.139±5.357	3.827±5.218
0346+800	Q		C1	1	3	3.90	49605.3333	0.409±0.038	-0.698±0.038	-0.001±0.021	-0.007±0.021	0.006±0.021	0.005±0.021	0.007±0.021			
0346+800	Q		C2	3	3	3.90	49605.3333	1.536±0.180	-1.850±0.180	-0.053±0.115	0.036±0.115	-0.062±0.115	0.017±0.115	0.064±0.115			
0444+634	Q	0.781	C1	1	3	3.89	49605.3333	0.097±0.016	-0.909±0.016	0.039±0.009	-0.247±0.009	0.250±0.009	-0.013±0.005	0.251±0.009	10.883±0.392	-0.566±0.218	10.927±0.392
0444+634	Q	0.781	C2	1	3	3.89	49605.3333	-0.016±0.059	-2.316±0.059	0.032±0.033	-0.292±0.033	0.291±0.033	-0.034±0.029	0.293±0.033	12.668±1.437	-1.480±1.262	12.755±1.437
0444+634	Q	0.781	C3	3	2	1.97	49605.3333	0.000±	-4.223±	-0.053±	-0.015±	0.015±	0.053±	0.055±	0.653±	2.307±	2.394±
0444+634	Q	0.781	C4	2	3	3.89	49605.3333	1.432±0.049	-5.390±0.049	-0.083±0.029	-0.158±0.029	0.132±0.029	0.121±0.029	0.179±0.029	5.746±1.262	5.267±1.262	7.792±1.262
0454+844	B	0.112	C1	1	3	4.33	51237.3333	0.378±0.070	-0.710±0.070	0.046±0.031	-0.095±0.031	0.105±0.031	0.004±0.027	0.105±0.031	0.768±0.227	0.029±0.197	0.768±0.227
0454+844	B	0.112	C2	1	3	4.33	51237.3333	0.334±0.115	-1.806±0.115	-0.013±0.051	-0.068±0.051	0.064±0.051	0.025±0.048	0.069±0.051	0.468±0.373	0.183±0.351	0.505±0.373
0537+531	Q	1.275	C1	1	4	6.74	50340.2500	-1.774±0.026	2.004±0.026	-0.054±0.012	0.070±0.012	0.088±0.012	0.006±0.011	0.089±0.012	5.530±0.754	0.377±0.691	5.592±0.754
0537+531	Q	1.275	C2	3	2	2.46	50340.2500	-7.738±	8.266±	0.057±	0.026±	-0.020±	0.060±	0.063±	-1.257±	3.770±	3.959±
0546+726	Q	1.555	C1	1	3	5.19	50477.3333	-1.151±0.009	0.671±0.009	-0.012±0.004	0.000±0.004	0.011±0.004	-0.007±0.004	0.012±0.004	0.788±0.287	-0.502±0.287	0.860±0.287
0546+726	Q	1.555	C2	1	3	5.19	50477.3333	-3.792±0.064	2.034±0.064	-0.048±0.029	-0.032±0.029	0.027±0.029	-0.051±0.029	0.058±0.029	1.935±2.078	-3.655±2.078	4.156±2.078
0546+726	Q	1.555	C3	1	3	5.19	50477.3333	-5.145±0.041	3.156±0.041	-0.056±0.020	0.024±0.020	0.060±0.020	-0.009±0.020	0.061±0.020	4.300±1.433	-0.645±1.433	4.371±1.433
0554+580	Q	0.904	C1	1	4	4.95	50041.2500	-1.271±0.010	0.294±0.010	-0.020±0.007	-0.011±0.007	0.017±0.007	-0.015±0.007	0.023±0.007	0.831±0.342	-0.733±0.342	1.124±0.342
0554+580	Q	0.904	C2	1	4	4.95	50041.2500	-3.536±0.038	0.982±0.038	0.011±0.022	0.043±0.022	0.001±0.022	0.044±0.022	0.044±0.022	0.049±1.075	2.150±1.075	2.150±1.075
0600+442	G	1.136	C1	1	3	4.24	50769.6667	-1.212±0.025	0.361±0.025	0.096±0.013	-0.002±0.013	-0.093±0.013	0.025±0.013	0.096±0.013	-5.388±0.753	1.448±0.753	5.562±0.753
0600+442	G	1.136	C2	2	3	4.24	50769.6667	-2.295±0.057	1.782±0.057	0.021±0.034	-0.137±0.034	-0.101±0.034	-0.095±0.034	0.138±0.034	-5.851±1.970	-5.504±1.970	7.995±1.970
0600+442	G	1.136	C3	3	3	4.24	50769.6667	-3.968±0.170	4.577±0.170	0.260±0.090	-0.186±0.090	-0.311±0.090	0.075±0.083	0.320±0.090	-18.017±5.214	4.345±4.808	18.539±5.214
0602+673	Q	1.950	C1	3	3	6.44	49141.0000	0.096±0.053	-0.475±0.053	-0.004±0.016	-0.050±0.016	0.048±0.017	0.014±0.012	0.050±0.016	3.943±1.396	1.150±0.986	4.107±1.314
0604+728	Q	0.986	C1	2	3	3.89	50081.0000	-11.537±0.101	5.460±0.101	-0.119±0.051	0.052±0.051	0.130±0.051	-0.004±0.050	0.130±0.051	6.786±2.662	-0.209±2.610	6.786±2.662
0604+728	Q	0.986	C2	2	3	3.89	50081.0000	-14.477±0.079	6.101±0.079	0.047±0.031	-0.022±0.031	-0.052±0.031	-0.002±0.031	0.052±0.031	-2.714±1.618	-0.104±1.618	2.714±1.618
0604+728	Q	0.986	C3	2	4	3.89	50081.0000	-17.417±0.155	8.176±0.155	0.008±0.068	0.027±0.068	0.005±0.068	0.028±0.067	0.028±0.068	0.261±3.550	1.462±3.497	1.462±3.550
0604+728	Q	0.986	C4	2	4	7.16	50081.0000	-18.050±0.024	7.678±0.024	0.027±0.008	0.062±0.008	-0.001±0.008	0.068±0.008	0.068±0.008	-0.052±0.418	3.550±0.418	3.550±0.418
0604+728	Q	0.986	C5	2	4	7.16	50081.0000	-19.909±0.097	7.273±0.097	0.068±0.043	0.065±0.043	-0.041±0.043	0.084±0.043	0.094±0.043	-2.140±2.245	4.385±2.245	4.907±2.245
0609+607	Q	2.702	C1	2	3	4.95	49951.0000	0.222±0.047	-0.592±0.047	-0.003±0.023	-0.011±0.023	0.009±0.023	0.006±0.022	0.011±0.023	0.878±2.243	0.585±2.146	1.073±2.243
0609+607	Q	2.702	C2	1	3	4.95	49951.0000	0.399±0.018	-1.339±0.018	0.010±0.011	-0.057±0.011	0.057±0.011	0.006±0.010	0.058±0.011	5.560±1.073	0.585±0.975	5.657±1.073
0609+607	Q	2.702	C3	3	3	4.95	49951.0000	2.960±0.255	-3.752±0.255	-0.036±0.125	0.043±0.125	-0.056±0.125	0.002±0.125	0.056±0.125	-5.462±12.193	0.195±12.193	5.462±12.193
0620+389	Q	3.469	C1	2	4	8.46	49846.5000	0.447±0.063	-0.534±0.063	0.030±0.018	0.009±0.018	0.012±0.018	-0.028±0.018	0.031±0.018	1.310±1.965	-3.056±1.965	3.384±1.965
0620+389	Q	3.469	C2	1	4	8.46	49846.5000	4.804±0.091	-4.590±0.091	0.009±0.029	0.007±0.029	0.002±0.029	-0.011±0.029	0.011±0.029	0.218±3.166	-1.201±3.166	1.201±3.166
0627+532	Q	2.204	C1	3	3	4.92	49985.0000	0.686±0.027	0.680±0.027	-0.012±0.017	0.042±0.017	0.021±0.017	-0.039±0.017	0.044±0.017	1.846±1.495	-3.429±1.495	3.868±1.495
0627+532	Q	2.204	C2	1	3	4.92	49985.0000	2.018±0.008	1.934±0.008	0.044±0.004	0.039±0.004	0.058±0.004	0.002±0.004	0.058±0.004	5.099±0.352	0.176±0.352	5.099±0.352
0627+532</																	

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)
Source	Cl	z	Id	q	n.ep.	span [year]	ref.ep.	$X_0 \pm \Delta X_0$ [mas]	$Y_0 \pm \Delta Y_0$ [mas]	$\mu^x \pm \Delta \mu^x$ [mas/year]	$\mu^y \pm \Delta \mu^y$ [mas/year]	$\mu^r \pm \Delta \mu^r$ [mas/year]	$\mu^\circ \pm \Delta \mu^\circ$ [mas/year]	$\mu^{\text{tot}} \pm \Delta \mu^{\text{tot}}$ [mas/year]	$\beta_{\text{app}}^r$ [c]	$\beta_{\text{app}}^\circ$ [c]	$\beta_{\text{app}}^{\text{tot}}$ [c]
0627+532	Q	2.204	C7	2	3	4.92	49985.0000	9.495 ± 0.115	8.009 ± 0.115	0.000 ± 0.056	0.052 ± 0.056	0.033 ± 0.056	-0.040 ± 0.056	0.052 ± 0.056	2.901 ± 4.923	-3.517 ± 4.923	4.572 ± 4.923
0633+596	U		C1	1	3	4.95	49951.0000	-0.870 ± 0.024	-0.425 ± 0.024	-0.014 ± 0.013	-0.004 ± 0.013	0.014 ± 0.013	0.002 ± 0.013	0.014 ± 0.013			
0633+596	U		C2	1	3	4.95	49951.0000	-1.366 ± 0.032	-0.857 ± 0.032	-0.003 ± 0.016	-0.004 ± 0.016	0.004 ± 0.016	-0.002 ± 0.016	0.004 ± 0.016			
0633+734	Q	1.850	C0	2	2	1.92	49605.3333	0.011 ± —	0.480 ± —	-0.026 ± —	0.051 ± —	0.051 ± —	-0.027 ± —	0.057 ± —	4.064 ± —	-2.151 ± —	4.542 ± —
0633+734	Q	1.850	C1	1	3	3.89	49605.3333	-0.066 ± 0.006	1.209 ± 0.006	-0.022 ± 0.003	0.211 ± 0.003	0.212 ± 0.003	-0.010 ± 0.003	0.212 ± 0.003	16.892 ± 0.239	-0.797 ± 0.239	16.892 ± 0.239
0633+734	Q	1.850	C2	1	3	3.89	49605.3333	-0.164 ± 0.025	2.296 ± 0.025	-0.034 ± 0.013	0.270 ± 0.013	0.272 ± 0.013	-0.015 ± 0.011	0.272 ± 0.013	21.673 ± 1.036	-1.195 ± 0.876	21.673 ± 1.036
0633+734	Q	1.850	C3	1	3	3.89	49605.3333	-0.533 ± 0.061	3.239 ± 0.061	-0.049 ± 0.039	0.156 ± 0.039	0.162 ± 0.039	-0.023 ± 0.037	0.164 ± 0.039	12.908 ± 3.108	-1.833 ± 2.948	13.067 ± 3.108
0633+734	Q	1.850	C4	1	3	3.89	49605.3333	-1.435 ± 0.066	6.237 ± 0.066	0.024 ± 0.045	0.187 ± 0.045	0.177 ± 0.045	0.066 ± 0.045	0.189 ± 0.045	14.103 ± 3.586	5.259 ± 3.586	15.059 ± 3.586
0633+734	Q	1.850	C5	3	3	3.89	49605.3333	-1.809 ± 0.148	11.456 ± 0.148	-0.036 ± 0.080	0.198 ± 0.080	0.201 ± 0.080	-0.005 ± 0.080	0.201 ± 0.080	16.016 ± 6.374	-0.398 ± 6.374	16.016 ± 6.374
0641+393	Q	1.266	C1	2	4	6.70	50368.0000	-0.055 ± 0.028	0.725 ± 0.028	-0.044 ± 0.012	0.006 ± 0.012	0.010 ± 0.012	-0.043 ± 0.012	0.044 ± 0.012	0.625 ± 0.750	-2.689 ± 0.750	2.751 ± 0.750
0641+393	Q	1.266	C2	1	4	6.70	50368.0000	-0.092 ± 0.050	4.064 ± 0.050	0.017 ± 0.021	0.111 ± 0.021	0.111 ± 0.021	0.019 ± 0.020	0.113 ± 0.021	6.941 ± 1.313	1.188 ± 1.251	7.066 ± 1.313
0642+449	Q	3.396	C1	1	3	5.19	49168.3333	3.135 ± 0.043	-0.074 ± 0.043	0.090 ± 0.023	0.012 ± 0.023	0.090 ± 0.023	-0.014 ± 0.022	0.091 ± 0.023	9.737 ± 2.488	-1.515 ± 2.380	9.845 ± 2.488
0646+600	Q	0.455	C1	2	2	6.67	49626.3333	-0.864 ± —	-1.110 ± —	-0.010 ± —	0.008 ± —	-0.002 ± —	0.014 ± —	0.014 ± —	-0.055 ± —	0.385 ± —	0.385 ± —
0646+600	Q	0.455	C2	1	3	6.67	49626.3333	-1.768 ± 0.038	-2.435 ± 0.038	-0.005 ± 0.014	0.004 ± 0.014	-0.001 ± 0.014	0.006 ± 0.014	0.007 ± 0.014	-0.027 ± 0.385	0.165 ± 0.385	0.192 ± 0.385
0651+410 G, LINER	0.022		C1	1	4	4.92	50069.0000	0.205 ± 0.063	-0.853 ± 0.063	0.015 ± 0.036	-0.034 ± 0.036	0.037 ± 0.036	-0.007 ± 0.034	0.037 ± 0.036	0.054 ± 0.053	-0.010 ± 0.050	0.054 ± 0.053
0651+410	G	0.022	C2	1	4	4.92	50069.0000	0.644 ± 0.054	-1.591 ± 0.054	0.031 ± 0.035	0.007 ± 0.035	0.005 ± 0.035	-0.031 ± 0.035	0.032 ± 0.035	0.007 ± 0.051	-0.045 ± 0.051	0.047 ± 0.051
0651+410	G	0.022	C3	3	3	2.43	50069.0000	2.246 ± 0.098	-2.952 ± 0.098	0.332 ± 0.093	-0.055 ± 0.093	0.245 ± 0.093	-0.231 ± 0.096	0.337 ± 0.093	0.358 ± 0.136	-0.338 ± 0.140	0.493 ± 0.136
0700+470	G		C1	1	3	4.66	49992.0000	0.754 ± 0.142	-1.355 ± 0.142	0.096 ± 0.071	-0.109 ± 0.071	0.142 ± 0.071	-0.031 ± 0.067	0.146 ± 0.071			
0700+470	G		C2	1	3	4.66	49992.0000	2.884 ± 0.043	-2.237 ± 0.043	0.018 ± 0.021	-0.036 ± 0.021	0.036 ± 0.021	0.017 ± 0.021	0.040 ± 0.021			
0700+470	G		C3	2	2	2.43	49992.0000	4.695 ± —	-2.360 ± —	0.181 ± —	0.096 ± —	0.120 ± —	-0.167 ± —	0.205 ± —			
0700+470	G		C4	2	2	2.43	49992.0000	6.720 ± —	-1.421 ± —	0.276 ± —	0.059 ± —	0.258 ± —	-0.115 ± —	0.283 ± —			
0700+470	G		C5	2	2	2.43	49992.0000	9.068 ± —	-0.975 ± —	0.280 ± —	0.083 ± —	0.269 ± —	-0.113 ± —	0.292 ± —			
0702+612	Q		C1	2	4	6.74	50340.2500	1.429 ± 0.053	0.539 ± 0.053	0.049 ± 0.023	0.005 ± 0.023	0.048 ± 0.023	0.013 ± 0.022	0.049 ± 0.023			
0702+612	Q		C2	2	4	6.74	50340.2500	2.920 ± 0.065	0.925 ± 0.065	0.022 ± 0.024	0.034 ± 0.024	0.031 ± 0.024	-0.026 ± 0.024	0.040 ± 0.024			
0707+476	Q	1.292	C1	2	4	9.71	49732.2500	-0.198 ± 0.036	0.648 ± 0.036	-0.010 ± 0.008	0.014 ± 0.008	0.017 ± 0.008	-0.005 ± 0.008	0.017 ± 0.008	1.078 ± 0.507	-0.317 ± 0.507	1.078 ± 0.507
0707+476	Q	1.292	C2	2	3	9.71	49732.2500	-0.204 ± 0.080	2.099 ± 0.080	0.051 ± 0.025	0.010 ± 0.025	0.005 ± 0.025	0.051 ± 0.025	0.052 ± 0.025	0.317 ± 1.585	3.234 ± 1.585	3.297 ± 1.585
0707+476	Q	1.292	C3	2	4	9.71	49732.2500	0.491 ± 0.146	3.639 ± 0.146	0.042 ± 0.035	-0.014 ± 0.035	-0.009 ± 0.035	0.044 ± 0.035	0.045 ± 0.035	-0.571 ± 2.219	2.790 ± 2.219	2.853 ± 2.219
0707+476	Q	1.292	C4	3	4	9.71	49732.2500	2.108 ± 0.240	4.935 ± 0.240	0.059 ± 0.070	0.033 ± 0.070	0.053 ± 0.070	0.041 ± 0.070	0.067 ± 0.070	3.361 ± 4.439	2.600 ± 4.439	4.248 ± 4.439
0710+439	G	0.518	C1	1	3	4.33	51236.6667	0.168 ± 0.018	1.669 ± 0.018	-0.015 ± 0.009	0.017 ± 0.009	0.015 ± 0.009	-0.016 ± 0.009	0.022 ± 0.009	0.462 ± 0.277	-0.493 ± 0.277	0.678 ± 0.277
0710+439	G	0.518	C2	1	3	4.33	51236.6667	-0.076 ± 0.032	9.947 ± 0.032	-0.006 ± 0.018	0.028 ± 0.018	0.028 ± 0.018	-0.006 ± 0.018	0.029 ± 0.018	0.863 ± 0.555	-0.185 ± 0.555	0.894 ± 0.555
0710+439	G	0.518	CC1	1	3	4.33	51236.6667	-0.409 ± 0.055	-14.064 ± 0.055	-0.012 ± 0.030	0.005 ± 0.030	-0.004 ± 0.030	0.012 ± 0.030	0.013 ± 0.030	-0.123 ± 0.925	0.370 ± 0.925	0.401 ± 0.925
0711+356	Q	1.620	C1	1	3	4.33	51236.6667	-0.578 ± 0.023	1.430 ± 0.023	-0.035 ± 0.011	0.051 ± 0.011	0.061 ± 0.011	-0.013 ± 0.011	0.062 ± 0.011	4.485 ± 0.809	-0.956 ± 0.809	4.559 ± 0.809
0711+356	Q	1.620	C2	1	3	4.33	51236.6667	-1.769 ± 0.043	4.293 ± 0.043	-0.028 ± 0.023	0.006 ± 0.023	0.016 ± 0.023	-0.023 ± 0.023	0.029 ± 0.023	1.176 ± 1.691	-1.691 ± 1.691	2.132 ± 1.691
0711+356	Q	1.620	C3	1	3	4.33	51236.6667	-2.215 ± 0.029	5.331 ± 0.029	-0.020 ± 0.016	0.035 ± 0.016	0.040 ± 0.016	-0.005 ± 0.016	0.041 ± 0.016	2.941 ± 1.176	-0.368 ± 1.176	3.015 ± 1.176
0714+457	Q	0.940	C1	1	3	4.92	49988.0000	0.397 ± 0.015	-0.524 ± 0.015	0.030 ± 0.012	-0.050 ± 0.012	0.058 ± 0.012	0.006 ± 0.012	0.058 ± 0.012	2.920 ± 0.604	0.302 ± 0.604	2.920 ± 0.604
0714+457	Q	0.940	C2	2	3	4.92	49988.0000	2.250 ± 0.054	-1.588 ± 0.054	0.196 ± 0.031	-0.123 ± 0.031	0.231 ± 0.031	-0.013 ± 0.030	0.231 ± 0.031	11.629 ± 1.561	-0.654 ± 1.510	11.629 ± 1.561
0714+457	Q	0.940	C3	1	3	4.92	49988.0000	3.624 ± 0.177	-2.837 ± 0.177	0.309 ± 0.090	-0.328 ± 0.090	0.445 ± 0.090	-0.068 ± 0.081	0.450 ± 0.090	22.402 ± 4.531	3.423 ± 4.078	22.654 ± 4.531
0716+714	B	≥0.300	C1	3	5	8.23	50442.4000	0.202 ± 0.050	0.760 ± 0.050	0.005 ± 0.013	0.074 ± 0.013	0.073 ± 0.014	-0.014 ± 0.013	0.074 ± 0.013			
0716+714	B	≥0.300	C2	3	3	6.26	50442.4000	0.534 ± 0.028	1.811 ± 0.028	-0.056 ± 0.010	0.045 ± 0.010	0.027 ± 0.010	-0.066 ± 0.010	0.071 ± 0.010			
0716+714	B	≥0.300	C3	3	3	5.20	50442.4000	0.796 ± 0.054	3.266 ± 0.054	0.004 ± 0.022	0.068 ± 0.022	0.067 ± 0.023	-0.012 ± 0.022	0.068 ± 0.022			
0716+714	B	≥0.300	C4	3	3	8.23	50442.4000	1.169 ± 0.132	4.856 ± 0.132	0.010 ± 0.033	0.092 ± 0.033	0.092 ± 0.033	-0.012 ± 0.032	0.093 ± 0.033			
0724+571	Q	0.426	C0	3	2	2.43	49954.0000	0.355 ± —	-0.627 ± —	0.014 ± —	-0.007 ± —	0.013 ± —	-0.009 ± —	0.015 ± —	0.337 ± —	-0.233 ± —	0.389 ± —
0724+571	Q	0.426	C1	2	3	4.95	49954.0000	0.600 ± 0.108	-1.158 ± 0.108	0.138 ± 0.046	-0.270 ± 0.046	0.303 ± 0.046	0.001 ± 0.028	0.303 ± 0.046	7.853 ± 1.192	0.026 ± 0.726	7.853 ± 1.192
0724+571	Q	0.426	C2	2	3	4.95	49954.0000	1.285 ± 0.323	-2.500 ± 0.323	0.175 ± 0.144	-0.299 ± 0.144	0.346 ± 0.144	-0.018 ± 0.119	0.347 ± 0.144	8.968 ± 3.732	-0.467 ± 3.084	8.994 ± 3.732
0724+571	Q	0.426	C3	1	3	4.95	49954.0000	2.374 ± 0.111	-4.747 ± 0.111	0.173 ± 0.050	-0.317 ± 0.050	0.361 ± 0.050	-0.013 ± 0.045	0.361 ± 0.050	9.356 ± 1.296	-0.337 ± 1.166	9.356 ± 1.296
0724+571	Q	0.426	C4	1	3	4.95	49954.0000	6.952 ± 0.143	-12.598 ± 0.143	0.102 ± 0.078	-0.145 ± 0.078	0.176 ± 0.078	-0.019 ± 0.077	0.177 ± 0.078	4.562 ± 2.022	-0.492 ± 1.996	4.588 ± 2.022
0727+409	Q	2.500	C1	2	3	4.24	50771.3333	-0.757 ± 0.009	0.434 ± 0.009	-0.006 ± 0.005	0.005 ± 0.005	0.007 ± 0.005	0.001 ± 0.005	0.007 ± 0.005	0.657 ± 0.469	0.094 ± 0.469	0.657 ± 0.469
0727+409	Q	2.500	C2	2	3	4.24	50771.3333	-1.401 ± 0.009	0.983 ± 0.009	-0.054 ± 0.005	0.044 ± 0.005	0.069 ± 0.005	0.005 ± 0.005	0.070 ± 0.005	6.478 ± 0.469	0.469 ± 0.469	6.571 ± 0.469
0727+409	Q	2.500	C3	3	3	4.24	50771.3333	-4.086 ± 0.226	3.481 ± 0.226	-0.005 ± 0.133	0.007 ± 0.133	0.009 ± 0.133	0.002 ± 0.133	0.009 ± 0.133	0.845 ± 12.486	0.188 ± 12.486	0.845 ± 12.486
0730+504	Q	0.720	C1	3	2	1.92	49567.3333	-0.146 ± —	-0.448 ± —	-0.183 ± —	-0.189 ± —	0.237 ± —	0.115 ± —	0.263 ± —	9.658 ± —	4.686 ± —	10.717 ± —
0730+504	Q	0.720	C2	3	2	2.28	49567.3333	-0.858 ± —	-1.304 ± —	-0.091 ± —	-0.185 ± —	0.205 ± —	-0.026 ± —	0.206 ± —	8.354 ± —	-1.060 ± —	8.395 ± —
0730+504	Q	0.720	C3	3	2	4.20	49567.3333	-1.223 ± 0.055	-2.352 ± 0.055	-0.128 ± 0.030	-0.229 ±						

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)
Source	Cl	z	Id	q	n.ep.	span [year]	ref.ep.	$X_0 \pm \Delta X_0$ [mas]	$Y_0 \pm \Delta Y_0$ [mas]	$\mu^x \pm \Delta \mu^x$ [mas/year]	$\mu^y \pm \Delta \mu^y$ [mas/year]	$\mu^r \pm \Delta \mu^r$ [mas/year]	$\mu^\circ \pm \Delta \mu^\circ$ [mas/year]	$\mu^{\text{tot}} \pm \Delta \mu^{\text{tot}}$ [mas/year]	$\beta_{\text{app}}^r$ [c]	$\beta_{\text{app}}^\circ$ [c]	$\beta_{\text{app}}^{\text{tot}}$ [c]
0733+597	G	0.041	C2	1	3	3.26	50890.6667	-0.228±0.142	3.834±0.142	-0.081±0.100	0.130±0.100	0.135±0.101	-0.073±0.100	0.153±0.100	0.367±0.274	-0.198±0.272	0.546±0.272
0733+597	G	0.041	C3	2	3	3.26	50890.6667	-0.699±0.221	5.184±0.221	-0.114±0.148	0.167±0.148	0.181±0.148	-0.090±0.153	0.202±0.148	0.492±0.402	-0.244±0.416	0.459±0.402
0733+597	G	0.041	C4	2	3	3.26	50890.6667	-1.449±0.070	7.060±0.070	0.071±0.054	-0.091±0.054	-0.103±0.054	0.051±0.054	0.115±0.054	-0.280±0.147	0.139±0.147	0.312±0.147
0733+597	G	0.041	C5	2	3	3.26	50890.6667	-1.099±0.033	8.786±0.033	-0.129±0.024	0.070±0.024	0.086±0.024	-0.119±0.024	0.147±0.024	0.234±0.065	-0.323±0.065	0.399±0.065
0733+597	G	0.041	C6	3	3	3.26	50890.6667	-2.885±0.050	20.624±0.050	0.009±0.036	0.170±0.036	0.167±0.036	0.032±0.036	0.170±0.036	0.454±0.098	0.087±0.098	0.462±0.098
0738+491	Q	2.320?	C1	2	3	4.67	49987.3333	0.096±0.065	1.195±0.065	-0.021±0.033	-0.077±0.033	-0.078±0.033	-0.015±0.032	0.080±0.033	-7.047±2.981	-1.355±2.891	7.228±2.981
0740+768	G		C1	2	3	3.90	49603.3333	-0.448±0.015	-0.213±0.015	-0.019±0.009	0.000±0.009	0.017±0.009	0.008±0.009	0.019±0.009			
0740+768	G		C2	1	3	3.90	49603.3333	-3.151±0.003	-1.239±0.003	-0.015±0.002	0.000±0.002	0.014±0.002	0.005±0.002	0.015±0.002			
0743+744	Q	1.629	C1	1	3	4.67	49985.6667	0.545±0.022	1.059±0.022	0.056±0.011	0.119±0.011	0.131±0.011	-0.005±0.010	0.132±0.011	9.666±0.812	-0.369±0.738	9.740±0.812
0743+744	Q	1.629	C2	1	3	4.67	49985.6667	0.818±0.037	1.942±0.037	0.020±0.023	0.064±0.023	0.067±0.023	-0.007±0.022	0.067±0.023	4.944±1.697	-0.516±1.623	4.944±1.697
0743+744	Q	1.629	C3	3	2	2.47	49985.6667	2.195±—	4.896±—	0.061±—	-0.003±—	0.022±—	—	0.056±—	1.623±—	4.132±—	4.501±—
0746+483	Q	1.951	C1	2	3	5.19	49292.0000	-1.011±0.094	0.142±0.094	-0.053±0.043	-0.039±0.043	0.047±0.043	-0.046±0.041	0.066±0.043	3.862±3.533	-3.780±3.369	5.423±3.533
0746+483	Q	1.951	C2	2	3	5.19	49292.0000	-2.824±0.067	-0.141±0.067	-0.054±0.030	-0.009±0.030	0.055±0.030	-0.006±0.030	0.055±0.030	4.519±2.465	-0.493±2.465	4.519±2.465
0749+426	Q	3.590	C1	2	3	4.22	49568.0000	-5.943±0.217	-6.121±0.217	0.046±0.219	0.099±0.219	-0.103±0.219	0.035±0.218	0.109±0.219	-11.405±24.249	3.875±24.138	12.069±24.249
0749+426	Q	3.590	C2	2	3	4.22	49568.0000	-6.197±0.171	-6.902±0.171	-0.019±0.080	-0.056±0.080	0.055±0.080	-0.023±0.080	0.059±0.080	6.090±8.858	-2.547±8.858	6.533±8.858
0749+426	Q	3.590	C3	2	2	4.22	49568.0000	-5.027±—	-9.255±—	0.008±—	0.053±—	-0.052±—	0.020±—	0.055±—	-5.758±—	2.214±—	6.090±—
0749+540	B	≥0.200	C1	3	2	2.52	49954.0000	0.388±—	0.495±—	0.019±—	0.070±—	0.067±—	-0.028±—	0.072±—			
0749+540	B	≥0.200	C2	3	2	2.52	49954.0000	0.226±—	1.636±—	0.011±—	0.055±—	0.056±—	0.004±—	0.056±—			
0800+618	Q	3.044	C1	2	3	4.21	50833.0000	0.033±0.088	-0.639±0.088	0.002±0.089	-0.022±0.089	0.022±0.089	-0.001±0.091	0.022±0.089	2.269±9.178	-0.103±9.384	2.269±9.178
0800+618	Q	3.044	C2	1	3	4.21	50833.0000	0.697±0.093	-1.711±0.093	0.037±0.044	-0.068±0.044	0.077±0.044	-0.009±0.041	0.077±0.044	7.941±4.537	-0.928±4.228	7.941±4.537
0800+618	Q	3.044	C3	3	3	4.21	50833.0000	3.832±0.180	-2.934±0.180	0.089±0.093	0.037±0.093	0.048±0.093	-0.084±0.093	0.097±0.093	4.950±9.591	-8.662±9.591	10.003±9.591
0803+452	Q	2.102	C1	2	3	4.67	49984.3333	-0.819±0.003	-0.618±0.003	-0.087±0.002	-0.059±0.002	0.105±0.002	0.006±0.002	0.105±0.002	8.996±0.171	0.514±0.171	8.996±0.171
0804+499	Q	1.432	C1	2	3	4.31	51239.0000	0.843±0.065	-0.810±0.065	0.019±0.033	-0.072±0.033	0.063±0.033	0.039±0.033	0.074±0.033	4.280±2.242	2.650±2.242	5.028±2.242
0804+499	Q	1.432	C2	3	3	4.31	51239.0000	1.548±0.124	-3.362±0.124	0.033±0.058	-0.267±0.058	0.256±0.058	0.082±0.053	0.269±0.058	17.394±3.941	5.571±3.601	18.277±3.941
0805+410	Q	1.420	C1	1	3	5.21	49293.0000	0.306±0.035	0.820±0.035	0.054±0.021	0.023±0.021	0.041±0.021	0.043±0.021	0.059±0.021	2.770±1.419	2.905±1.419	3.987±1.419
0805+410	Q	1.420	C2	1	3	5.21	49293.0000	1.571±0.099	2.098±0.099	0.138±0.056	-0.016±0.056	0.070±0.057	0.120±0.055	0.139±0.056	4.730±3.851	8.108±3.716	9.392±3.784
0805+410	Q	1.420	C3	2	3	5.21	49293.0000	5.323±0.160	4.706±0.160	0.024±0.071	0.037±0.071	0.042±0.071	-0.012±0.071	0.044±0.071	2.838±4.797	-0.811±4.797	2.973±4.797
0806+573	Q	0.611	C1	2	3	4.22	49568.0000	-0.884±0.055	-0.058±0.055	-0.038±0.038	-0.054±0.038	0.041±0.039	-0.051±0.039	0.066±0.038	1.457±1.386	-1.812±1.386	2.345±1.350
0806+573	Q	0.611	C2	2	3	4.22	49568.0000	-6.112±0.178	-0.716±0.178	0.111±0.092	-0.002±0.092	-0.110±0.092	-0.015±0.093	0.111±0.092	-3.909±3.269	-0.533±3.305	3.944±3.269
0806+573	Q	0.611	C3	1	3	4.22	49568.0000	-24.788±0.032	-1.140±0.032	0.028±0.016	0.043±0.016	-0.030±0.016	0.042±0.016	0.052±0.016	-1.066±0.569	1.492±0.569	1.848±0.569
0806+573	Q	0.611	C4	3	2	4.22	49568.0000	-31.611±—	-4.969±—	0.184±—	-0.065±—	-0.172±—	-0.093±—	0.195±—	-6.112±—	-3.305±—	6.929±—
0812+367	Q	1.025	C1	3	3	6.46	49018.3333	-0.255±0.194	1.658±0.194	0.005±0.071	0.057±0.071	0.056±0.071	0.014±0.070	0.057±0.071	3.009±3.815	0.752±3.762	3.063±3.815
0812+367	Q	1.025	C2	3	3	6.46	49018.3333	-0.902±0.140	7.010±0.140	-0.092±0.048	0.077±0.048	0.088±0.048	-0.081±0.048	0.120±0.048	4.729±2.579	-4.353±2.579	6.449±2.579
0812+367	Q	1.025	C3	3	3	6.46	49018.3333	-3.026±0.108	11.021±0.108	-0.117±0.045	0.208±0.045	0.232±0.045	-0.058±0.044	0.239±0.045	12.467±2.418	-3.117±2.364	12.843±2.418
0814+425	B	0.245	C1	1	3	4.31	51239.0000	1.118±0.012	0.022±0.012	0.103±0.006	0.016±0.006	0.103±0.006	-0.014±0.006	0.104±0.006	1.601±0.093	-0.218±0.093	1.617±0.093
0814+425	B	0.245	C2	3	2	4.31	51239.0000	1.241±—	-1.468±—	-0.007±—	0.009±—	-0.012±—	0.000±—	0.012±—	-0.187±—	0.000±—	0.187±—
0814+425	B	0.245	C3	3	3	4.31	51239.0000	4.250±0.226	-1.909±0.226	-0.100±0.118	-0.143±0.118	-0.033±0.119	0.172±0.119	0.175±0.118	-0.513±1.850	2.674±1.850	2.720±1.834
0820+560	Q	1.409	C1	3	2	6.46	49025.3333	0.508±—	-0.098±—	0.017±—	-0.004±—	0.017±—	0.000±—	0.017±—	1.143±—	0.000±—	1.143±—
0820+560	Q	1.409	C2	1	3	6.46	49025.3333	1.638±0.123	-0.084±0.123	0.014±0.069	-0.029±0.069	0.015±0.069	0.028±0.068	0.032±0.069	1.008±4.638	1.882±4.571	2.151±4.638
0820+560	Q	1.409	C3	2	2	6.46	49025.3333	2.836±—	-0.157±—	0.038±—	0.069±—	0.034±—	-0.071±—	0.079±—	2.286±—	-4.773±—	5.311±—
0821+394	Q	1.216	C1	3	2	4.22	49018.3333	-0.450±—	0.391±—	0.002±—	0.025±—	0.016±—	0.021±—	0.026±—	0.973±—	1.277±—	1.581±—
0821+394	Q	1.216	C2	3	2	4.22	49018.3333	-1.880±—	1.899±—	0.065±—	-0.097±—	-0.114±—	-0.022±—	0.116±—	-6.931±—	-1.338±—	7.053±—
0821+394	Q	1.216	C3	3	2	4.22	49018.3333	-2.766±—	2.695±—	-0.014±—	0.027±—	0.029±—	0.010±—	0.031±—	1.763±—	0.608±—	1.885±—
0821+394	Q	1.216	C4	3	2	4.22	49018.3333	-3.592±—	3.703±—	-0.056±—	0.046±—	0.073±—	-0.008±—	0.073±—	4.438±—	-0.486±—	4.438±—
0821+621	Q	0.542	C1	1	3	4.22	49568.0000	-29.581±0.070	-14.377±0.070	0.056±0.042	0.002±0.042	-0.051±0.042	-0.023±0.042	0.056±0.042	-1.635±1.347	-0.737±1.347	1.795±1.347
0824+355	Q	2.249	C1	3	2	2.46	50403.0000	5.312±—	3.748±—	0.047±—	0.100±—	0.096±—	-0.054±—	0.110±—	8.532±—	-4.799±—	9.776±—
0824+355	Q	2.249	C2	3	2	2.46	50403.0000	9.325±—	6.292±—	0.102±—	0.068±—	0.123±—	0.000±—	0.123±—	10.932±—	0.000±—	10.932±—
0831+557	G, $S_{\gamma}$ III	0.240	C1	1	3	4.31	51239.0000	1.001±0.043	1.554±0.043	0.017±0.020	-0.019±0.020	-0.007±0.020	0.025±0.020	0.026±0.020	-0.107±0.305	0.381±0.305	0.396±0.305
0831+557	G	0.240	C2	2	3	4.31	51239.0000	-1.945±0.224	1.413±0.224	-0.048±0.139	0.054±0.139	0.070±0.139	0.015±0.142	0.072±0.139	1.067±2.119	0.229±2.165	1.098±2.119
0831+557	G	0.240	C3	2	2	4.31	51239.0000	-3.518±—	1.789±—	-0.083±—	0.029±—	0.087±—	-0.011±—	0.088±—	1.326±—	-0.168±—	1.341±—
0831+557	G	0.240	C4	2	3	4.31	51239.0000	-1.650±0.211	3.861±0.211	0.059±0.088	0.105±0.088	0.074±0.088	0.096±0.085	0.121±0.088	1.128±1.341	1.463±1.296	1.845±1.341
0831+557	G	0.240	C5	2	3	4.31	51239.0000	0.933±0.134	4.577±0.134	-0.096±0.069	-0.110±0.069	-0.127±0.069	-0.072±0.068	0.146±0.069	-1.936±1.052	-1.098±1.037	2.226±1.052
0831+557	G	0.240	C6	1	3	4.31	51239.0000	-4.823±0.312	2.847±0.312	0.095±0.184	0.013±0.184	-0.076±0.184	0.059±0.183	0.096±0.184	-1.159±2.805	0.899±2.790	1.463±2.

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)
Source	Cl	z	Id	q	n.ep.	span [year]	ref.ep.	$X_0 \pm \Delta X_0$ [mas]	$Y_0 \pm \Delta Y_0$ [mas]	$\mu^x \pm \Delta \mu^x$ [mas/year]	$\mu^y \pm \Delta \mu^y$ [mas/year]	$\mu^r \pm \Delta \mu^r$ [mas/year]	$\mu^\theta \pm \Delta \mu^\theta$ [mas/year]	$\mu^{\text{tot}} \pm \Delta \mu^{\text{tot}}$ [mas/year]	$\beta_{\text{app}}^r$ [c]	$\beta_{\text{app}}^\theta$ [c]	$\beta_{\text{app}}^{\text{tot}}$ [c]
0833+416	Q	1.298	C1	1	3	3.24	50892.3333	0.280 ± 0.016	2.023 ± 0.016	-0.033 ± 0.012	0.045 ± 0.012	0.040 ± 0.012	-0.038 ± 0.012	0.055 ± 0.012	2.544 ± 0.763	-2.417 ± 0.763	3.499 ± 0.763
0833+416	Q	1.298	C2	3	3	3.24	50892.3333	0.408 ± 0.035	3.165 ± 0.035	0.009 ± 0.023	0.081 ± 0.023	0.081 ± 0.023	-0.001 ± 0.023	0.081 ± 0.023	5.153 ± 1.463	-0.064 ± 1.463	5.153 ± 1.463
0833+585	Q	2.101	C1	1	3	5.49	48900.6667	1.367 ± 0.020	0.196 ± 0.020	0.163 ± 0.008	0.012 ± 0.008	0.163 ± 0.008	0.011 ± 0.009	0.164 ± 0.008	13.962 ± 0.685	0.942 ± 0.771	14.048 ± 0.685
0836+710	Q	2.180	C1	1	3	4.31	51239.3333	-0.469 ± 0.022	-0.528 ± 0.022	0.035 ± 0.012	0.031 ± 0.012	-0.046 ± 0.012	-0.006 ± 0.012	0.047 ± 0.012	-4.020 ± 1.049	-0.524 ± 1.049	4.108 ± 1.049
0836+710	Q	2.180	C2	1	3	4.31	51239.3333	-1.566 ± 0.157	-2.253 ± 0.157	-0.015 ± 0.095	-0.049 ± 0.095	0.048 ± 0.095	-0.016 ± 0.095	0.051 ± 0.095	4.195 ± 8.303	-1.398 ± 8.303	4.457 ± 8.303
0836+710	Q	2.180	C3	1	3	4.31	51239.3333	-3.355 ± 0.279	-4.691 ± 0.279	-0.021 ± 0.133	-0.034 ± 0.133	0.040 ± 0.133	-0.003 ± 0.132	0.040 ± 0.133	3.496 ± 11.624	-0.262 ± 11.537	3.496 ± 11.624
0836+710	Q	2.180	C4	1	3	4.31	51239.3333	-4.975 ± 0.141	-6.838 ± 0.141	-0.075 ± 0.096	-0.161 ± 0.096	0.174 ± 0.096	-0.034 ± 0.097	0.177 ± 0.096	15.208 ± 8.391	-2.972 ± 8.478	15.470 ± 8.391
0836+710	Q	2.180	C5	1	3	4.31	51239.3333	-6.160 ± 0.042	-9.950 ± 0.042	-0.086 ± 0.022	-0.282 ± 0.022	0.285 ± 0.022	-0.075 ± 0.022	0.295 ± 0.022	24.909 ± 1.923	-6.555 ± 1.923	25.783 ± 1.923
0836+710	Q	2.180	C6	1	3	4.31	51239.3333	-5.813 ± 0.106	-11.982 ± 0.106	-0.019 ± 0.051	-0.349 ± 0.051	0.322 ± 0.051	-0.136 ± 0.050	0.350 ± 0.051	28.143 ± 4.457	-11.887 ± 4.370	30.590 ± 4.457
0836+710	Q	2.180	C7	2	3	4.31	51239.3333	-13.025 ± 0.239	-31.939 ± 0.239	-0.023 ± 0.134	0.171 ± 0.134	-0.150 ± 0.134	0.086 ± 0.134	0.173 ± 0.134	-13.110 ± 11.712	7.516 ± 11.712	15.120 ± 11.712
0843+575	G		C1	1	4	4.95	50041.2500	-2.001 ± 0.021	-2.694 ± 0.021	-0.007 ± 0.012	0.013 ± 0.012	-0.006 ± 0.012	0.013 ± 0.012	0.015 ± 0.012			
0843+575	G		C2	1	4	4.95	50041.2500	-3.820 ± 0.017	-4.454 ± 0.017	-0.010 ± 0.011	-0.003 ± 0.011	0.009 ± 0.011	0.006 ± 0.011	0.011 ± 0.011			
0843+575	G		C3	2	4	4.95	50041.2500	-5.465 ± 0.061	-2.779 ± 0.061	-0.049 ± 0.052	0.110 ± 0.052	-0.006 ± 0.052	0.120 ± 0.052	0.120 ± 0.052			
0843+575	G		C4	2	4	4.95	50041.2500	-4.748 ± 0.036	-4.241 ± 0.036	0.022 ± 0.021	0.013 ± 0.021	-0.025 ± 0.021	-0.005 ± 0.021	0.026 ± 0.021			
0847+379	G	0.407	C1	2	3	2.46	50372.6667	0.139 ± 0.049	0.999 ± 0.049	-0.016 ± 0.049	0.085 ± 0.049	0.082 ± 0.049	-0.028 ± 0.048	0.087 ± 0.049	2.040 ± 1.219	-0.696 ± 1.194	2.164 ± 1.219
0847+379	G	0.407	C2	2	3	2.46	50372.6667	0.288 ± 0.155	1.969 ± 0.155	-0.006 ± 0.195	0.097 ± 0.195	0.095 ± 0.195	-0.020 ± 0.190	0.097 ± 0.195	2.363 ± 4.851	-0.497 ± 4.726	2.413 ± 4.851
0847+379	G	0.407	C3	3	2	2.46	50372.6667	0.325 ±	5.369 ±	-0.058 ±	0.077 ±	0.073 ±	-0.062 ±	0.096 ±	1.816 ±	-1.542 ±	2.388 ±
0850+581	Q	1.322	C1	1	3	4.33	51236.3333	0.187 ± 0.037	-0.818 ± 0.037	-0.008 ± 0.018	0.019 ± 0.018	-0.020 ± 0.018	0.004 ± 0.018	0.021 ± 0.018	-1.288 ± 1.159	0.258 ± 1.159	1.353 ± 1.159
0850+581	Q	1.322	C2	1	3	4.33	51236.3333	1.075 ± 0.050	-2.226 ± 0.050	0.007 ± 0.029	-0.039 ± 0.029	0.038 ± 0.029	0.011 ± 0.029	0.040 ± 0.029	2.448 ± 1.868	0.709 ± 1.868	2.576 ± 1.868
0850+581	Q	1.322	C3	2	3	4.33	51236.3333	2.955 ± 0.180	-4.956 ± 0.180	0.046 ± 0.104	-0.016 ± 0.104	0.038 ± 0.104	-0.032 ± 0.104	0.049 ± 0.104	2.448 ± 6.699	-2.061 ± 6.699	3.156 ± 6.699
0850+581	Q	1.322	C4	1	3	4.33	51236.3333	3.374 ± 0.046	-6.693 ± 0.046	0.043 ± 0.024	-0.085 ± 0.024	0.095 ± 0.024	0.000 ± 0.024	0.095 ± 0.024	6.119 ± 1.546	0.000 ± 1.546	6.119 ± 1.546
0859+470	Q	1.462	C1	1	3	4.33	51236.3333	-0.326 ± 0.021	1.559 ± 0.021	-0.038 ± 0.010	-0.052 ± 0.010	-0.044 ± 0.010	-0.048 ± 0.010	0.065 ± 0.010	-3.030 ± 0.689	-3.306 ± 0.689	4.477 ± 0.689
0859+470	Q	1.462	C2	1	3	4.33	51236.3333	0.112 ± 0.070	4.121 ± 0.070	-0.025 ± 0.041	-0.007 ± 0.041	-0.008 ± 0.041	-0.025 ± 0.041	0.026 ± 0.041	-0.551 ± 2.824	-1.722 ± 2.824	1.791 ± 2.824
0859+681	Q	1.499	C1	2	3	4.22	49568.0000	0.102 ± 0.021	0.512 ± 0.021	0.017 ± 0.015	0.030 ± 0.015	-0.367 ± 0.423	-0.038 ± 0.434	0.369 ± 0.423	-25.689 ± 29.609	-2.660 ± 30.379	25.829 ± 29.609
0859+681	Q	1.499	C2	1	3	4.22	49568.0000	0.529 ± 0.030	2.118 ± 0.030	0.009 ± 0.017	0.065 ± 0.017	0.065 ± 0.017	-0.007 ± 0.016	0.065 ± 0.017	4.550 ± 1.190	-0.490 ± 1.120	4.550 ± 1.190
0859+681	Q	1.499	C3	1	3	4.22	49568.0000	1.230 ± 0.047	4.990 ± 0.047	0.013 ± 0.027	0.048 ± 0.027	0.050 ± 0.027	0.001 ± 0.027	0.050 ± 0.027	3.500 ± 1.890	0.070 ± 1.890	3.500 ± 1.890
0900+520	Q	1.537	C1	1	3	4.95	49951.0000	-0.630 ± 0.031	-0.559 ± 0.031	-0.102 ± 0.016	-0.084 ± 0.016	0.132 ± 0.016	0.004 ± 0.013	0.132 ± 0.016	9.389 ± 1.138	0.285 ± 0.925	9.389 ± 1.138
0900+520	Q	1.537	C2	3	2	2.49	49951.0000	-2.256 ±	0.085 ±	-0.305 ±	0.046 ±	0.306 ±	0.034 ±	0.308 ±	21.766 ±	2.418 ±	21.908 ±
0902+490	Q	2.690	C1	1	3	4.92	49985.0000	-0.740 ± 0.032	0.924 ± 0.032	-0.001 ± 0.016	0.012 ± 0.016	0.010 ± 0.016	0.007 ± 0.016	0.012 ± 0.016	0.973 ± 1.557	0.681 ± 1.557	1.168 ± 1.557
0917+449	Q	2.180	C1	1	3	5.19	49291.3333	0.062 ± 0.030	-1.037 ± 0.030	-0.017 ± 0.014	-0.016 ± 0.014	0.015 ± 0.014	0.018 ± 0.014	0.024 ± 0.014	1.311 ± 1.224	1.573 ± 1.224	2.098 ± 1.224
0917+449	Q	2.180	C2	2	3	5.19	49291.3333	-1.813 ± 0.127	-5.813 ± 0.127	0.079 ± 0.052	0.012 ± 0.052	-0.035 ± 0.052	-0.071 ± 0.053	0.080 ± 0.052	-3.059 ± 4.545	-6.205 ± 4.632	6.992 ± 4.545
0917+449	Q	2.180	C3	1	3	5.19	49291.3333	-5.569 ± 0.146	-18.074 ± 0.146	0.163 ± 0.063	0.008 ± 0.063	-0.056 ± 0.063	-0.153 ± 0.063	0.163 ± 0.063	-4.894 ± 5.506	-13.372 ± 5.506	14.246 ± 5.506
0917+624	Q	1.446	C1	1	4	9.52	49943.2500	-0.256 ± 0.033	0.849 ± 0.033	-0.005 ± 0.009	0.006 ± 0.009	0.007 ± 0.009	-0.003 ± 0.009	0.008 ± 0.009	0.479 ± 0.615	-0.205 ± 0.615	0.547 ± 0.615
0917+624	Q	1.446	C2	1	4	9.52	49943.2500	-1.895 ± 0.052	5.506 ± 0.052	-0.025 ± 0.015	0.040 ± 0.015	0.046 ± 0.015	-0.011 ± 0.015	0.047 ± 0.015	3.145 ± 1.026	-0.752 ± 1.026	3.214 ± 1.026
0923+392	Q	0.699	C1	2	3	4.33	51236.3333	1.041 ± 0.274	0.120 ± 0.274	-0.070 ± 0.153	0.076 ± 0.153	-0.061 ± 0.154	-0.083 ± 0.149	0.103 ± 0.153	-2.426 ± 6.125	-3.301 ± 5.926	4.096 ± 6.085
0923+392	Q	0.699	CC1	1	3	4.33	51236.3333	-1.420 ± 0.046	0.191 ± 0.046	0.063 ± 0.027	-0.007 ± 0.027	-0.063 ± 0.027	0.001 ± 0.027	0.063 ± 0.027	-2.506 ± 1.074	0.040 ± 1.074	2.506 ± 1.074
0923+392	Q	0.699	CC2	2	3	4.33	51236.3333	-2.591 ± 0.115	0.977 ± 0.115	-0.008 ± 0.065	0.031 ± 0.065	0.019 ± 0.065	0.026 ± 0.065	0.032 ± 0.065	0.756 ± 2.585	1.034 ± 2.585	1.273 ± 2.585
0925+504	B		C1	2	3	4.66	49985.6667	1.008 ± 0.030	-0.667 ± 0.030	0.093 ± 0.016	-0.028 ± 0.016	0.093 ± 0.016	-0.028 ± 0.015	0.097 ± 0.016			
0925+504	B		C2	2	2	2.46	49985.6667	4.353 ±	-3.808 ±	0.037 ±	-0.083 ±	0.083 ±	0.038 ±	0.091 ±			
0927+352	B		C1	1	3	4.67	49984.3333	0.712 ± 0.010	-0.438 ± 0.010	0.051 ± 0.005	-0.039 ± 0.005	0.064 ± 0.005	0.006 ± 0.005	0.064 ± 0.005			
0927+352	B		C2	3	3	4.67	49984.3333	3.985 ± 0.037	-0.837 ± 0.037	-0.067 ± 0.020	0.009 ± 0.020	-0.067 ± 0.020	0.005 ± 0.020	0.068 ± 0.020			
0927+352	B		C3	3	3	4.67	49984.3333	5.565 ± 0.044	-1.464 ± 0.044	0.106 ± 0.023	-0.034 ± 0.023	0.111 ± 0.023	0.006 ± 0.023	0.112 ± 0.023			
0929+533	Q	0.595	C1	2	3	4.95	49951.0000	0.804 ± 0.135	-0.783 ± 0.135	0.052 ± 0.066	-0.040 ± 0.066	0.065 ± 0.066	-0.008 ± 0.064	0.065 ± 0.066	2.258 ± 2.293	-0.278 ± 2.223	2.258 ± 2.293
0930+493	Q	2.582	C1	1	3	4.67	49987.3333	0.992 ± 0.037	1.014 ± 0.037	0.076 ± 0.020	0.088 ± 0.020	0.116 ± 0.020	-0.007 ± 0.022	0.116 ± 0.020	11.067 ± 1.908	-0.668 ± 2.099	11.067 ± 1.908
0930+493	Q	2.582	C2	1	3	4.67	49987.3333	1.628 ± 0.075	1.652 ± 0.075	0.089 ± 0.033	0.117 ± 0.033	0.145 ± 0.033	-0.019 ± 0.035	0.146 ± 0.033	13.833 ± 3.148	-1.813 ± 3.339	13.929 ± 3.148
0930+493	Q	2.582	C3	2	3	4.67	49987.3333	1.964 ± 0.121	1.910 ± 0.121	0.014 ± 0.067	-0.045 ± 0.067	-0.021 ± 0.067	0.042 ± 0.068	0.047 ± 0.067	-2.003 ± 6.392	4.007 ± 6.487	4.484 ± 6.392
0942+468	G	0.639	C1	1	4	4.67	50068.5000	0.794 ± 0.032	0.618 ± 0.032	0.031 ± 0.022	0.027 ± 0.022	0.041 ± 0.022	-0.003 ± 0.023	0.041 ± 0.022	1.513 ± 0.812	-0.111 ± 0.849	1.513 ± 0.812
0942+468	G	0.639	C2	2	3	4.67	50068.5000	1.498 ± 0.016	2.160 ± 0.016	-0.017 ± 0.008	0.015 ± 0.008	0.002 ± 0.008	-0.023 ± 0.008	0.023 ± 0.008	0.074 ± 0.295	-0.849 ± 0.295	0.849 ± 0.295
0942+468	G	0.639	C3	3	3	2.44	50068.5000	-0.127 ± 0.071	4.023 ± 0.071	-0.042 ± 0.055	-0.095 ± 0.055	-0.094 ± 0.055	-0.045 ± 0.054	0.104 ± 0.055	-3.469 ± 2.030	-1.661 ± 1.993	3.838 ± 2.030
0945+408	Q	1.252	C1	2	3	4.31	51238.6667	1.312 ± 0.092	-0.663 ± 0.092	0.159 ± 0.096	-0.191 ± 0.096	0.228 ± 0.096	0.099 ± 0.108	0.249 ± 0.096	14.147 ± 5.957	6.143 ± 6.701	15.450 ± 5.957
0945+408	Q																

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)
Source	Cl	z	Id	q	n.ep.	span [year]	ref.ep.	$X_0 \pm \Delta X_0$ [mas]	$Y_0 \pm \Delta Y_0$ [mas]	$\mu^x \pm \Delta \mu^x$ [mas/year]	$\mu^y \pm \Delta \mu^y$ [mas/year]	$\mu^r \pm \Delta \mu^r$ [mas/year]	$\mu^\theta \pm \Delta \mu^\theta$ [mas/year]	$\mu^{\text{tot}} \pm \Delta \mu^{\text{tot}}$ [mas/year]	$\beta_{\text{app}}^r$ [c]	$\beta_{\text{app}}^\theta$ [c]	$\beta_{\text{app}}^{\text{tot}}$ [c]
0950+748	G	0.695	C2	2	2	1.98	49604.0000	-2.531±	-0.776±	-0.121±	-0.167±	-0.165±	-0.124±	0.207±	6.531±	-4.908±	8.194±
0950+748	G	0.695	C3	1	3	3.90	49604.0000	-15.100±0.076	-2.993±0.076	-0.010±0.040	0.008±0.040	0.008±0.040	0.010±0.040	0.013±0.040	0.317±1.583	0.396±1.583	0.515±1.583
0950+748	G	0.695	C4	1	3	3.90	49604.0000	-15.577±0.143	-5.620±0.143	-0.082±0.088	0.095±0.088	0.045±0.088	0.117±0.088	0.126±0.088	1.781±3.483	4.631±3.483	4.987±3.483
0950+748	G	0.695	C5	3	2	1.92	49604.0000	-17.791±	-9.803±	0.231±	0.118±	-0.259±	-0.008±	0.259±	-10.252±	-0.317±	10.252±
0950+748	G	0.695	C6	2	3	3.90	49604.0000	-19.946±0.308	-8.134±0.308	-0.274±0.187	0.180±0.187	0.185±0.187	0.270±0.185	0.328±0.187	7.323±7.402	10.687±7.323	12.983±7.402
0950+748	G	0.695	C7	2	3	3.90	49604.0000	-20.518±0.044	-7.253±0.044	0.010±0.023	-0.184±0.023	0.052±0.023	-0.177±0.023	0.185±0.023	2.058±0.910	-7.006±0.910	7.323±0.910
0954+658	B	0.368	C1	2	2	4.33	51236.3333	-0.338±	0.684±	-0.032±	-0.003±	0.011±	-0.030±	0.032±	0.250±	-0.681±	0.726±
0954+658	B	0.368	C2	2	2	4.33	51236.3333	-1.520±	1.282±	0.059±	0.065±	-0.003±	0.088±	0.088±	-0.068±	1.998±	1.998±
0954+658	B	0.368	C3	1	3	4.33	51236.3333	-3.215±0.053	1.084±0.053	-0.005±0.028	-0.005±0.028	0.003±0.028	-0.006±0.028	0.007±0.028	0.068±0.636	-0.136±0.636	0.159±0.636
0954+658	B	0.368	C4	3	2	1.07	51236.3333	-9.144±	3.345±	-0.162±	-0.404±	0.013±	-0.435±	0.435±	0.295±	-9.874±	9.874±
0955+476	Q	1.873	C1	2	3	5.19	49293.0000	0.562±0.044	-0.412±0.044	-0.045±0.017	0.000±0.017	-0.036±0.017	0.027±0.016	0.045±0.017	-2.889±1.364	2.167±1.284	3.612±1.364
1003+830	G	0.322	C1	1	3	5.20	49291.6667	0.428±0.017	0.112±0.017	-0.002±0.009	-0.006±0.009	-0.004±0.009	0.005±0.009	0.006±0.009	-0.080±0.181	0.100±0.181	0.120±0.181
1003+830	G	0.322	C2	1	3	5.20	49291.6667	2.735±0.059	0.461±0.059	0.086±0.026	0.015±0.026	0.088±0.026	0.000±0.026	0.088±0.026	1.767±0.522	0.000±0.522	1.767±0.522
1003+830	G	0.322	C3	3	3	5.20	49291.6667	4.789±0.074	1.015±0.074	-0.024±0.030	-0.037±0.030	-0.031±0.030	0.032±0.030	0.044±0.030	-0.622±0.602	0.642±0.602	0.883±0.602
1003+830	G	0.322	C4	1	3	5.20	49291.6667	6.691±0.029	0.582±0.029	0.183±0.014	0.092±0.014	0.190±0.014	-0.075±0.013	0.204±0.014	3.814±0.281	-1.506±0.261	4.095±0.281
1010+350	Q	1.414	C1	1	3	4.67	49987.6667	2.161±0.014	-0.309±0.014	0.154±0.008	-0.015±0.008	0.155±0.008	-0.007±0.007	0.155±0.008	10.444±0.539	-0.472±0.472	10.444±0.539
1010+350	Q	1.414	C2	2	3	4.67	49987.6667	4.581±0.154	-0.461±0.154	0.112±0.074	0.073±0.074	0.104±0.074	-0.084±0.072	0.134±0.074	7.008±4.986	-5.660±4.851	9.029±4.986
1010+350	Q	1.414	C3	3	3	4.67	49987.6667	7.822±0.492	-0.654±0.492	0.065±0.308	-0.215±0.308	0.083±0.308	0.209±0.307	0.225±0.308	5.593±20.753	14.082±20.686	15.161±20.753
1014+615	Q	2.800	C1	1	3	3.90	49604.0000	-0.846±0.014	-0.268±0.014	-0.014±0.009	0.015±0.009	0.009±0.009	0.018±0.009	0.020±0.009	0.893±0.893	1.786±0.893	1.984±0.893
1015+359	Q	1.226	C1	1	3	4.92	49328.6667	-0.163±0.028	-0.906±0.028	0.003±0.015	-0.107±0.015	0.105±0.015	-0.022±0.016	0.107±0.015	6.421±0.917	-1.345±0.978	6.543±0.917
1015+359	Q	1.226	C2	1	3	4.92	49328.6667	-0.098±0.050	-2.471±0.050	0.004±0.026	-0.168±0.026	0.168±0.026	-0.011±0.024	0.168±0.026	10.273±1.590	-0.673±1.468	10.273±1.590
1015+359	Q	1.226	C3	1	3	4.92	49328.6667	-0.053±0.049	-4.115±0.049	0.012±0.024	-0.135±0.024	0.135±0.024	-0.014±0.024	0.136±0.024	8.255±1.468	-0.856±1.468	8.316±1.468
1020+400	Q	1.254	C1	2	3	4.91	49329.3333	-0.717±0.123	0.602±0.123	-0.027±0.052	-0.007±0.052	0.016±0.052	-0.023±0.053	0.028±0.052	0.994±3.230	-1.429±3.292	1.739±3.230
1020+400	Q	1.254	C2	1	3	4.91	49329.3333	-2.507±0.112	2.904±0.112	-0.139±0.058	0.158±0.058	0.211±0.058	-0.002±0.057	0.211±0.058	13.107±3.603	-0.124±3.541	13.107±3.603
1020+400	Q	1.254	C3	3	3	4.91	49329.3333	-7.382±0.154	10.667±0.154	-0.169±0.082	0.127±0.082	0.201±0.082	-0.067±0.081	0.212±0.082	12.486±5.094	-4.162±5.032	13.169±5.094
1030+398	G	1.095?	C1	2	3	4.67	49987.6667	0.467±0.076	0.744±0.076	0.011±0.034	0.055±0.034	0.052±0.034	-0.020±0.030	0.056±0.034	2.934±1.918	-1.128±1.692	3.159±1.918
1030+398	G	1.095?	C2	1	3	4.67	49987.6667	1.610±0.030	1.683±0.030	0.004±0.015	-0.021±0.015	-0.013±0.015	0.017±0.015	0.022±0.015	-0.733±0.846	0.959±0.846	1.241±0.846
1030+415	Q	1.120	C1	2	3	4.92	49327.6667	-0.142±0.144	1.038±0.144	-0.003±0.081	0.041±0.081	0.041±0.081	0.002±0.077	0.041±0.081	2.351±4.645	0.115±4.416	2.351±4.645
1030+415	Q	1.120	C2	1	3	4.92	49327.6667	0.041±0.083	4.469±0.083	0.020±0.042	0.070±0.042	0.070±0.042	0.020±0.042	0.073±0.042	4.014±2.408	1.147±2.408	4.186±2.408
1030+415	Q	1.120	C3	2	4.92	49327.6667	-3.541±	12.432±	-0.010±	0.013±	-0.016±	-0.006±	0.017±	0.918±	-0.344±	0.975±	
1030+611	Q	0.336	C1	1	3	3.92	49605.6667	0.281±0.011	-0.905±0.011	0.025±0.006	-0.011±0.006	0.018±0.006	-0.021±0.006	0.027±0.006	0.376±0.125	-0.438±0.125	0.564±0.125
1030+611	Q	0.336	C2	2	3	3.92	49605.6667	0.570±0.149	-2.891±0.149	-0.006±0.087	-0.090±0.087	0.087±0.087	0.023±0.088	0.090±0.087	1.817±1.817	0.480±1.837	1.879±1.817
1031+567	G, Sy II	0.460	C1	1	3	4.31	51238.6667	1.130±0.037	0.712±0.037	-0.008±0.020	-0.015±0.020	-0.015±0.020	0.008±0.020	0.017±0.020	-0.416±0.555	0.222±0.555	0.472±0.555
1031+567	G	0.460	C2	1	3	4.31	51238.6667	21.483±0.192	18.485±0.192	0.146±0.105	-0.026±0.105	0.094±0.105	0.115±0.105	0.148±0.105	2.609±2.915	3.192±2.915	4.108±2.915
1031+567	G	0.460	C3	2	3	4.31	51238.6667	24.598±0.176	20.818±0.176	0.099±0.097	0.086±0.097	0.131±0.097	-0.002±0.097	0.131±0.097	3.636±2.693	-0.056±2.693	3.636±2.693
1031+567	G	0.460	C4	1	3	4.31	51238.6667	25.755±0.080	21.527±0.080	0.032±0.036	-0.001±0.036	0.023±0.036	0.021±0.036	0.032±0.036	0.638±0.999	0.583±0.999	0.888±0.999
1038+528	Q	0.677	C1	2	3	4.67	49987.6667	0.270±0.105	0.783±0.105	-0.037±0.075	-0.044±0.075	-0.054±0.075	-0.021±0.079	0.058±0.075	-2.091±2.905	-0.813±3.060	2.246±2.905
1039+811	Q	1.254	C1	2	3	3.91	49604.0000	-0.532±0.072	0.254±0.072	-0.037±0.054	0.009±0.054	0.037±0.054	-0.008±0.055	0.038±0.054	2.298±3.354	-0.497±3.417	2.361±3.354
1039+811	Q	1.254	C2	1	3	3.91	49604.0000	-1.384±0.043	0.628±0.043	-0.152±0.025	0.058±0.025	0.163±0.025	-0.010±0.024	0.163±0.025	10.125±1.553	-0.621±1.491	10.125±1.553
1039+811	Q	1.254	C3	2	3	3.91	49604.0000	-2.481±0.152	0.965±0.152	-0.045±0.098	0.003±0.098	0.043±0.098	-0.013±0.097	0.045±0.098	2.671±6.088	-0.808±6.026	2.795±6.088
1039+811	Q	1.254	C4	3	3	3.91	49604.0000	-6.205±0.555	1.039±0.555	0.118±0.376	-0.080±0.376	-0.129±0.376	-0.060±0.381	0.143±0.376	-8.013±23.357	-3.727±23.667	8.883±23.357
1041+536	Q	1.897	C1	1	3	4.67	49987.6667	0.368±0.047	-0.484±0.047	-0.007±0.022	0.030±0.022	-0.028±0.022	-0.013±0.023	0.031±0.022	-2.264±1.779	-1.051±1.860	2.506±1.779
1041+536	Q	1.897	C2	2	3	4.67	49987.6667	0.870±0.048	-1.182±0.048	-0.003±0.024	0.014±0.024	-0.013±0.024	-0.006±0.024	0.015±0.024	-1.051±1.940	-0.485±1.940	1.213±1.940
1041+536	Q	1.897	C3	1	3	4.67	49987.6667	0.589±0.107	-3.914±0.107	-0.066±0.056	-0.078±0.056	0.067±0.056	0.077±0.055	0.102±0.056	5.417±4.528	6.226±4.447	8.247±4.528
1044+719	Q	1.150	C1	2	3	5.20	49292.6667	0.423±0.026	-0.105±0.026	0.041±0.011	0.032±0.011	0.032±0.012	-0.041±0.011	0.052±0.011	1.870±0.701	-2.396±0.643	3.039±0.643
1053+704	Q	2.492	C1	3	3	5.20	49291.6667	-0.391±0.174	-0.709±0.174	-0.119±0.075	-0.128±0.075	0.170±0.076	0.042±0.050	0.175±0.075	15.933±7.123	3.936±4.686	16.402±7.029
1053+815	G	0.706	C1	2	3	5.20	49293.3333	-0.847±0.037	-0.693±0.037	-0.093±0.018	-0.038±0.018	0.096±0.018	0.030±0.016	0.101±0.018	3.849±0.722	1.203±0.642	4.050±0.722
1058+629	Q	0.663	C1	1	3	3.92	49605.6667	0.276±0.026	0.740±0.026	0.026±0.054	0.109±0.054	0.111±0.054	-0.014±0.054	0.112±0.054	4.225±2.055	-0.533±2.055	4.263±2.055
1058+726	Q	1.460	C1	2	4	8.46	49846.0000	0.065±0.092	0.743±0.092	0.014±0.027	-0.009±0.027	-0.008±0.027	0.015±0.026	0.017±0.027	-0.550±1.858	1.032±1.789	1.170±1.858
1058+726	Q	1.460	C2	2	4	8.46	49846.0000	0.217±0.065	2.369±0.065	0.048±0.021	0.061±0.021	0.066±0.021	0.043±0.021	0.078±0.021	4.542±1.445	2.959±1.445	5.367±1.445
1058+726	Q	1.460	C3	2	4	8.46	49846.0000	0.699±0.037	3.762±0.037	0.035±0.011	0.065±0.011	0.070±0.011	0.023±0.011	0.073±0.011	4.817±0.757	1.583±0.757	5.023±0.757
1101+384	B	0.031	C1	1	3	6.69											

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)
Source	Cl	z	Id	q	n.ep.	span [year]	ref.ep.	$X_0 \pm \Delta X_0$ [mas]	$Y_0 \pm \Delta Y_0$ [mas]	$\mu^x \pm \Delta \mu^x$ [mas/year]	$\mu^y \pm \Delta \mu^y$ [mas/year]	$\mu^r \pm \Delta \mu^r$ [mas/year]	$\mu^\theta \pm \Delta \mu^\theta$ [mas/year]	$\mu^{\text{tot}} \pm \Delta \mu^{\text{tot}}$ [mas/year]	$\beta_{\text{app}}^r$ [c]	$\beta_{\text{app}}^\theta$ [c]	$\beta_{\text{app}}^{\text{tot}}$ [c]
1105+437	Q	1.226	C4	3	2	2.44	49987.3333	-7.147±0.027	-4.942±0.027	0.007±0.015	-0.200±0.015	0.108±0.015	-0.168±0.015	0.200±0.015	6.604±1.346	-10.273±1.346	12.230±1.346
1106+380	G	2.290	C1	1	3	4.23	50769.6667	-0.712±0.027	-1.495±0.027	0.003±0.015	-0.037±0.015	0.032±0.015	-0.019±0.015	0.037±0.015	2.871±1.346	-1.705±1.346	3.320±1.346
1106+380	G	2.290	C2	1	3	4.23	50769.6667	-2.012±0.055	-3.725±0.055	-0.007±0.032	0.044±0.032	-0.036±0.032	0.027±0.032	0.045±0.032	-3.230±2.871	2.423±2.871	4.038±2.871
1106+380	G	2.290	C3	1	3	4.23	50769.6667	-2.358±0.038	-5.117±0.038	-0.021±0.021	0.033±0.021	-0.021±0.021	0.033±0.021	0.039±0.021	-1.884±1.884	2.961±1.884	3.499±1.884
1106+380	G	2.290	C4	1	3	4.23	50769.6667	-2.598±0.051	-6.510±0.051	0.003±0.028	0.037±0.028	-0.036±0.028	0.011±0.028	0.037±0.028	-3.230±2.512	0.987±2.512	3.320±2.512
1107+607	U		C1	2	2	1.94	49605.6667	0.437±0.040	0.349±0.040	0.052±0.026	0.132±0.026	0.123±0.026	-0.071±0.026	0.142±0.026			
1107+607	U		C2	2	3	3.92	49605.6667	0.531±0.040	1.206±0.040	0.058±0.026	0.186±0.026	0.194±0.026	-0.022±0.025	0.195±0.026			
1107+607	U		C3	2	2	1.98	49605.6667	0.579±0.040	2.357±0.040	0.043±0.026	0.286±0.026	0.288±0.026	-0.026±0.025	0.289±0.026			
1124+455	Q	1.811	C1	1	3	4.68	49984.6667	-0.258±0.027	1.196±0.027	-0.002±0.014	0.034±0.014	0.033±0.014	0.006±0.014	0.034±0.014	2.597±1.102	0.472±1.102	2.675±1.102
1124+455	Q	1.811	C2	1	3	4.68	49984.6667	-0.300±0.125	3.530±0.125	0.000±0.063	0.070±0.063	0.070±0.063	0.006±0.063	0.070±0.063	5.508±4.957	0.472±4.957	5.508±4.957
1124+571	Q	2.890	C1	1	3	3.92	49605.6667	2.037±0.078	0.150±0.078	0.062±0.046	0.050±0.046	0.066±0.046	-0.045±0.045	0.080±0.046	6.646±4.632	-4.532±4.632	8.056±4.632
1125+596	Q	1.779	C1	2	2	1.94	49606.6667	-0.556±0.040	-0.047±0.040	0.030±0.026	-0.044±0.026	-0.026±0.026	-0.047±0.026	0.053±0.026	-2.038±0.966	-3.684±0.966	4.154±0.966
1128+385	Q	1.733	C1	2	3	4.41	49546.3333	-0.281±0.022	-0.717±0.022	-0.013±0.011	-0.018±0.011	0.022±0.011	0.005±0.011	0.023±0.011	1.686±0.843	0.383±0.843	1.763±0.843
1143+590	Q	1.982	C1	1	3	3.92	49605.6667	0.836±0.036	0.510±0.036	0.081±0.022	0.019±0.022	0.079±0.022	0.026±0.020	0.084±0.022	6.550±1.824	2.156±1.658	6.965±1.824
1144+352	G, Sy II	0.063	C1	1	3	3.21	49806.3333	-1.033±0.077	0.066±0.077	-0.181±0.045	-0.033±0.045	0.179±0.045	-0.045±0.033	0.184±0.045	0.744±0.187	-0.187±0.137	0.764±0.187
1144+352	G	0.063	C2	3	3	3.21	49806.3333	-1.212±0.195	4.044±0.195	0.282±0.150	-0.105±0.150	-0.181±0.151	0.240±0.149	0.301±0.150	-0.752±0.627	0.997±0.619	1.251±0.623
1144+352	G	0.063	C3	1	3	3.21	49806.3333	-3.834±0.025	1.358±0.025	0.014±0.020	-0.085±0.020	-0.042±0.020	-0.075±0.020	0.086±0.020	-0.175±0.083	-0.312±0.083	0.357±0.083
1144+352	G	0.063	C4	1	3	3.21	49806.3333	-19.179±0.028	11.582±0.028	-0.405±0.020	0.203±0.020	0.452±0.020	-0.035±0.020	0.454±0.020	1.878±0.083	-0.145±0.083	1.886±0.083
1144+352	G	0.063	C5	3	3	3.21	49806.3333	-20.938±0.028	12.428±0.028	-0.326±0.026	0.284±0.026	0.426±0.026	0.078±0.026	0.433±0.026	1.770±0.108	0.324±0.108	1.799±0.108
1144+542	Q	2.201	C1	1	3	5.21	49293.3333	-0.012±0.042	-1.061±0.042	-0.018±0.020	-0.034±0.020	0.034±0.020	0.018±0.019	0.039±0.020	2.987±1.757	1.581±1.669	3.426±1.757
1144+542	Q	2.201	C2	1	3	5.21	49293.3333	-0.466±0.026	-2.534±0.026	0.047±0.011	-0.028±0.011	0.019±0.011	-0.015±0.011	0.055±0.011	1.669±0.966	-4.481±0.966	4.832±0.966
1146+596	G, LINER	0.011	C1	1	3	3.91	49605.6667	1.805±0.052	-2.232±0.052	0.022±0.035	-0.139±0.035	0.122±0.035	0.070±0.035	0.141±0.035	0.089±0.026	0.051±0.026	0.103±0.026
1146+596	G	0.011	C2	1	3	3.91	49605.6667	2.856±0.111	-3.123±0.111	0.006±0.063	-0.157±0.063	0.120±0.063	0.101±0.065	0.157±0.063	0.088±0.046	0.074±0.048	0.115±0.046
1146+596	G	0.011	C3	2	3	3.91	49605.6667	3.599±0.143	-4.712±0.143	0.094±0.090	-0.376±0.090	0.356±0.090	0.153±0.087	0.387±0.090	0.261±0.066	0.112±0.064	0.284±0.066
1146+596	G	0.011	CC1	2	3	3.91	49605.6667	-2.033±0.230	2.147±0.230	-0.138±0.150	-0.021±0.150	0.079±0.151	-0.115±0.148	0.140±0.150	0.058±0.111	-0.084±0.108	0.103±0.110
1146+596	G	0.011	CC2	1	3	3.91	49605.6667	-3.709±0.138	3.631±0.138	-0.192±0.075	0.089±0.075	0.199±0.075	-0.070±0.074	0.211±0.075	0.146±0.055	-0.051±0.054	0.155±0.055
1146+596	G	0.011	CC3	1	3	3.91	49605.6667	-4.603±0.301	4.334±0.301	-0.012±0.289	-0.214±0.289	-0.138±0.289	-0.164±0.291	0.214±0.289	-0.101±0.212	-0.120±0.213	0.157±0.212
1150+812	Q	1.250	C1	2	2	1.93	49604.0000	-0.069±0.040	-0.404±0.040	-0.007±0.015	-0.118±0.015	0.117±0.015	-0.013±0.015	0.118±0.015	7.252±0.966	-0.806±0.966	7.314±0.966
1150+812	Q	1.250	C2	1	3	3.91	49604.0000	0.065±0.029	-1.330±0.029	0.050±0.017	-0.221±0.017	0.223±0.017	-0.039±0.017	0.226±0.017	13.822±1.054	-2.417±1.054	14.008±1.054
1150+812	Q	1.250	C3	2	3	3.91	49604.0000	0.438±0.045	-2.429±0.045	0.198±0.030	-0.351±0.030	0.380±0.030	-0.132±0.028	0.403±0.030	23.553±1.859	-8.182±1.735	24.978±1.859
1150+812	Q	1.250	C4	3	3	3.91	49604.0000	1.311±0.247	-4.059±0.247	0.168±0.142	-0.311±0.142	0.347±0.142	-0.065±0.133	0.353±0.142	21.507±8.801	-4.029±8.244	21.879±8.801
1151+408	Q	0.916	C1	1	3	2.46	50374.3333	1.178±0.042	0.754±0.042	0.084±0.044	0.029±0.044	0.086±0.044	0.021±0.043	0.089±0.044	4.244±2.172	1.036±2.122	4.392±2.172
1151+408	Q	0.916	C2	1	3	2.46	50374.3333	2.591±0.052	0.819±0.052	0.094±0.063	0.026±0.063	0.098±0.063	0.003±0.063	0.098±0.063	4.837±3.109	0.148±3.109	4.837±3.109
1151+408	Q	0.916	CC1	3	3	2.46	50374.3333	-1.290±0.004	-0.125±0.004	-0.005±0.005	-0.133±0.005	0.018±0.005	-0.132±0.004	0.133±0.005	0.888±0.247	-6.515±0.197	6.564±0.247
1155+486	Q	2.028	C1	1	3	3.21	49806.3333	-0.765±0.053	0.054±0.053	-0.104±0.032	-0.052±0.032	0.100±0.032	-0.059±0.027	0.116±0.032	8.399±2.688	-4.955±2.688	9.743±2.688
1155+486	Q	2.028	C2	1	3	3.21	49806.3333	-2.236±0.060	-0.935±0.060	-0.211±0.042	-0.199±0.042	0.271±0.042	-0.102±0.040	0.290±0.042	22.761±3.528	-8.567±3.360	24.357±3.528
1205+544	U		C1	2	3	4.68	49984.6667	-0.703±0.035	0.023±0.035	-0.075±0.018	-0.057±0.018	0.073±0.018	-0.060±0.016	0.094±0.018			
1205+544	U		C2	1	3	4.68	49984.6667	-1.626±0.028	-0.491±0.028	-0.068±0.017	-0.092±0.017	0.091±0.017	-0.068±0.016	0.114±0.017			
1205+544	U		C3	2	2	2.46	49984.6667	-2.397±0.040	-1.579±0.040	0.014±0.026	-0.124±0.026	0.056±0.026	-0.111±0.026	0.124±0.026			
1205+544	U		C4	2	2	2.46	49984.6667	-3.875±0.040	-3.532±0.040	-0.026±0.026	-0.022±0.026	0.034±0.026	0.001±0.026	0.034±0.026			
1205+544	U		CC1	1	3	4.68	49984.6667	1.946±0.006	-1.243±0.006	0.018±0.003	-0.026±0.003	0.029±0.003	0.013±0.003	0.031±0.003			
1205+544	U		CC2	1	3	4.68	49984.6667	2.784±0.011	-0.641±0.011	0.060±0.006	0.012±0.006	0.055±0.006	-0.025±0.006	0.061±0.006			
1213+350	Q	0.857	C1	3	3	4.41	49546.6667	29.658±0.142	20.935±0.142	0.129±0.070	0.007±0.070	0.109±0.070	0.068±0.069	0.129±0.070	5.108±3.281	3.187±3.234	6.046±3.281
1213+350	Q	0.857	C2	3	3	4.41	49546.6667	29.852±0.105	21.506±0.105	0.130±0.056	0.003±0.056	0.108±0.056	0.073±0.056	0.130±0.056	5.061±2.624	3.421±2.624	6.092±2.624
1216+487	Q	1.076	C1	1	3	4.41	49545.3333	1.114±0.034	-0.188±0.034	0.023±0.016	0.000±0.016	0.022±0.016	-0.003±0.016	0.023±0.016	1.225±0.891	-0.167±0.891	1.281±0.891
1216+487	Q	1.076	C2	1	3	4.41	49545.3333	2.180±0.090	-0.357±0.090	0.120±0.044	-0.004±0.044	0.119±0.044	-0.016±0.042	0.120±0.044	6.628±2.451	-0.891±2.339	6.684±2.451
1218+444	Q	1.345	C1	2	3	4.22	49569.6667	-0.301±0.071	0.580±0.071	0.015±0.047	-0.009±0.047	-0.015±0.047	0.009±0.047	0.017±0.047	-0.977±3.063	0.586±3.063	1.108±3.063
1218+444	Q	1.345	C2	3	3	4.22	49569.6667	-5.538±0.518	4.396±0.518	-0.142±0.275	0.154±0.275	0.207±0.275	0.033±0.271	0.209±0.275	13.489±17.921	2.150±17.660	13.620±17.921
1221+809	B		C1	1	3	4.67	49988.3333	-0.106±0.030	1.086±0.030	-0.004±0.017	0.051±0.017	0.051±0.017	0.001±0.016	0.051±0.017			
1221+809	B		C2	1	3	4.67	49988.3333	-0.443±0.069	0.404±0.069	-0.019±0.031	0.033±0.031	0.034±0.031	-0.016±0.032	0.038±0.031			
1221+809	B		C3	1	3	4.67	49988.3333	-0.488±0.060	0.667±0.060	0.064±0.039	0.046±0.039	0.040±0.039	0.068±0.038	0.079±0.039			
1221+809	B		C4	2	3	4.67	49988.3333	-1.615±0.081	8.829±0.081	-0.023±0.043	0.061±0.043	0.064±0.043	-0.012±0.043	0.065±0.043			
1223+395	Q	0.623	C1</														

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)
Source	Cl	z	Id	q	n.ep.	span [year]	ref.ep.	$X_0 \pm \Delta X_0$ [mas]	$Y_0 \pm \Delta Y_0$ [mas]	$\mu^x \pm \Delta \mu^x$ [mas/year]	$\mu^y \pm \Delta \mu^y$ [mas/year]	$\mu^r \pm \Delta \mu^r$ [mas/year]	$\mu^\circ \pm \Delta \mu^\circ$ [mas/year]	$\mu^{\text{tot}} \pm \Delta \mu^{\text{tot}}$ [mas/year]	$\beta_{\text{app}}^r$ [c]	$\beta_{\text{app}}^\circ$ [c]	$\beta_{\text{app}}^{\text{tot}}$ [c]
1223+395	Q	0.623	C5	2	4	4.67	50067.7500	6.305 ± 0.135	11.977 ± 0.135	0.046 ± 0.073	0.058 ± 0.073	0.073 ± 0.073	0.014 ± 0.073	0.074 ± 0.073	2.637 ± 2.637	0.506 ± 2.637	2.673 ± 2.637
1223+395	Q	0.623	C6	3	2	0.99	50067.7500	8.332 ± —	13.007 ± —	0.236 ± —	-0.031 ± —	0.101 ± —	0.216 ± —	0.239 ± —	3.649 ± —	7.803 ± —	8.634 ± —
1226+373	Q	1.515	C1	2	2	2.22	49984.6667	-0.682 ± —	1.041 ± —	-0.102 ± —	0.098 ± —	0.138 ± —	-0.031 ± —	0.141 ± —	9.726 ± —	-2.185 ± —	9.937 ± —
1239+376	Q	3.818	C1	2	2	2.46	49984.3333	0.476 ± —	1.607 ± —	0.013 ± —	0.046 ± —	0.047 ± —	0.000 ± —	0.047 ± —	5.335 ± —	0.000 ± —	5.335 ± —
1240+381	Q	1.316	C1	1	3	4.68	49984.3333	0.848 ± 0.044	-0.455 ± 0.044	0.070 ± 0.020	-0.072 ± 0.020	0.095 ± 0.020	0.030 ± 0.016	0.100 ± 0.020	6.100 ± 1.284	1.926 ± 1.027	6.421 ± 1.284
1246+586	B	—	C1	3	3	3.91	49606.3333	0.059 ± 0.329	1.422 ± 0.329	0.006 ± 0.225	-0.124 ± 0.225	-0.124 ± 0.225	0.011 ± 0.239	0.124 ± 0.225	—	—	—
1250+532	B	—	C1	2	3	4.68	49984.6667	-0.767 ± 0.034	-0.332 ± 0.034	-0.002 ± 0.019	0.031 ± 0.019	-0.011 ± 0.019	0.029 ± 0.019	0.031 ± 0.019	—	—	—
1250+532	B	—	C2	1	2	2.47	49984.6667	-4.354 ± —	-0.951 ± —	-0.056 ± —	-0.046 ± —	0.065 ± —	-0.033 ± —	0.073 ± —	—	—	—
1250+532	B	—	C3	3	2	2.47	49984.6667	-8.447 ± —	-2.030 ± —	-0.120 ± —	0.078 ± —	0.098 ± —	0.104 ± —	0.143 ± —	—	—	—
1258+507	Q	1.561?	C1	1	4	6.45	50366.0000	0.404 ± 0.084	-1.356 ± 0.084	0.006 ± 0.035	-0.031 ± 0.035	0.031 ± 0.035	0.003 ± 0.034	0.031 ± 0.035	2.227 ± 2.514	0.216 ± 2.442	2.227 ± 2.514
1258+507	Q	1.561?	C2	3	3	4.24	50366.0000	0.594 ± 0.043	-2.592 ± 0.043	0.029 ± 0.021	-0.026 ± 0.021	0.032 ± 0.021	-0.022 ± 0.021	0.039 ± 0.021	2.299 ± 1.509	-1.580 ± 1.509	2.802 ± 1.509
1300+580	G	1.088	C1	3	3	3.91	49606.3333	0.575 ± 0.068	2.794 ± 0.068	-0.037 ± 0.036	0.026 ± 0.036	0.018 ± 0.036	-0.042 ± 0.036	0.046 ± 0.036	1.011 ± 2.021	-2.358 ± 2.021	2.583 ± 2.021
1305+804	Q	1.183	C1	1	3	4.24	50770.0000	1.008 ± 0.039	0.606 ± 0.039	0.052 ± 0.021	0.034 ± 0.021	0.062 ± 0.021	-0.002 ± 0.021	0.062 ± 0.021	3.697 ± 1.252	-0.119 ± 1.252	3.697 ± 1.252
1305+804	Q	1.183	C2	1	3	4.24	50770.0000	12.624 ± 0.055	6.816 ± 0.055	0.130 ± 0.031	0.051 ± 0.031	0.139 ± 0.031	0.017 ± 0.031	0.140 ± 0.031	8.289 ± 1.849	1.014 ± 1.849	8.349 ± 1.849
1306+360	Q	1.055	C1	3	2	2.46	50771.0000	-0.290 ± —	1.048 ± —	-0.032 ± —	0.078 ± —	0.084 ± —	-0.010 ± —	0.084 ± —	4.611 ± —	-0.549 ± —	4.611 ± —
1307+562	Q	1.629	C1	1	3	3.91	49606.3333	-0.039 ± 0.030	-0.911 ± 0.030	-0.037 ± 0.019	-0.051 ± 0.019	0.052 ± 0.019	0.035 ± 0.019	0.063 ± 0.019	3.837 ± 1.402	2.582 ± 1.402	4.648 ± 1.402
1307+562	Q	1.629	C2	3	2	1.97	49606.3333	-0.367 ± —	-1.760 ± —	0.070 ± —	0.082 ± —	-0.095 ± —	-0.052 ± —	0.108 ± —	-7.010 ± —	-3.837 ± —	7.969 ± —
1309+555	Q	0.926	C1	1	3	3.91	49606.3333	-0.285 ± 0.026	0.868 ± 0.026	-0.058 ± 0.014	-0.017 ± 0.014	0.002 ± 0.014	-0.060 ± 0.014	0.060 ± 0.014	0.100 ± 0.697	-2.986 ± 0.697	2.986 ± 0.697
1312+533	U	—	C1	1	2	2.47	49985.0000	-1.431 ± —	-0.729 ± —	0.001 ± —	0.024 ± —	-0.013 ± —	0.022 ± —	0.025 ± —	—	—	—
1321+410	G	0.496	C1	1	3	4.66	49985.3333	5.348 ± 0.002	-0.695 ± 0.002	-0.009 ± 0.001	0.004 ± 0.001	-0.010 ± 0.001	-0.003 ± 0.001	0.010 ± 0.001	-0.297 ± 0.030	-0.089 ± 0.030	0.297 ± 0.030
1322+835	U	—	C1	1	3	3.90	49604.3333	-0.663 ± 0.031	0.386 ± 0.031	-0.004 ± 0.020	0.041 ± 0.020	0.024 ± 0.021	0.034 ± 0.021	0.041 ± 0.020	—	—	—
1322+835	U	—	C2	3	2	3.90	49604.3333	-3.448 ± —	1.268 ± —	-0.125 ± —	0.018 ± —	0.124 ± —	-0.026 ± —	0.127 ± —	—	—	—
1323+800	G	1.970	C1	1	3	3.90	49604.6667	0.803 ± 0.025	0.007 ± 0.025	0.041 ± 0.014	-0.003 ± 0.014	0.041 ± 0.014	0.003 ± 0.014	0.041 ± 0.014	3.388 ± 1.157	0.248 ± 1.157	3.388 ± 1.157
1323+800	G	1.970	C2	1	3	3.90	49604.6667	1.725 ± 0.007	0.341 ± 0.007	0.165 ± 0.004	-0.035 ± 0.004	0.155 ± 0.005	0.066 ± 0.004	0.168 ± 0.004	12.807 ± 0.413	5.453 ± 0.331	13.881 ± 0.331
1323+800	G	1.970	C3	2	3	3.90	49604.6667	3.353 ± 0.035	-0.670 ± 0.035	0.225 ± 0.020	-0.146 ± 0.020	0.249 ± 0.020	0.099 ± 0.019	0.268 ± 0.020	20.574 ± 1.653	8.180 ± 1.570	22.144 ± 1.653
1325+436	Q	2.073	C1	1	3	4.92	49985.0000	-0.541 ± 0.019	-0.610 ± 0.019	-0.040 ± 0.009	-0.037 ± 0.009	0.055 ± 0.009	0.005 ± 0.008	0.055 ± 0.009	4.676 ± 0.765	0.425 ± 0.680	4.676 ± 0.765
1325+436	Q	2.073	C2	1	3	4.92	49985.0000	-1.055 ± 0.074	-1.068 ± 0.074	-0.051 ± 0.046	-0.005 ± 0.046	0.040 ± 0.047	0.033 ± 0.046	0.051 ± 0.046	3.401 ± 3.996	2.806 ± 3.911	4.336 ± 3.911
1333+459	Q	2.449	C1	1	3	4.20	49568.0000	-0.969 ± 0.039	0.451 ± 0.039	-0.078 ± 0.023	0.040 ± 0.023	0.088 ± 0.023	0.004 ± 0.024	0.088 ± 0.023	8.175 ± 2.137	0.372 ± 2.230	8.175 ± 2.137
1333+459	Q	2.449	C2	1	3	4.20	49568.0000	-1.702 ± 0.051	0.789 ± 0.051	-0.035 ± 0.031	0.028 ± 0.031	0.044 ± 0.031	0.011 ± 0.030	0.045 ± 0.031	4.088 ± 2.880	1.022 ± 2.787	4.181 ± 2.880
1333+589	G	—	C1	1	3	4.20	49568.0000	-4.638 ± 0.045	-11.769 ± 0.045	0.077 ± 0.027	-0.025 ± 0.027	-0.005 ± 0.027	-0.080 ± 0.027	0.081 ± 0.027	—	—	—
1333+589	G	—	C2	1	3	4.20	49568.0000	-3.791 ± 0.022	-12.188 ± 0.022	0.019 ± 0.011	-0.018 ± 0.011	0.012 ± 0.011	-0.023 ± 0.011	0.026 ± 0.011	—	—	—
1333+589	G	—	CC1	1	3	4.20	49568.0000	-0.554 ± 0.034	0.549 ± 0.034	0.006 ± 0.019	-0.046 ± 0.019	-0.037 ± 0.019	-0.028 ± 0.018	0.046 ± 0.019	—	—	—
1335+552	Q	1.096	C1	1	3	3.89	49604.6667	0.480 ± 0.043	0.138 ± 0.043	0.039 ± 0.025	-0.006 ± 0.025	0.036 ± 0.025	0.017 ± 0.024	0.039 ± 0.025	2.032 ± 1.411	0.960 ± 1.355	2.202 ± 1.411
1335+552	Q	1.096	C2	1	3	3.89	49604.6667	1.251 ± 0.029	0.083 ± 0.029	0.020 ± 0.019	-0.025 ± 0.019	0.018 ± 0.019	0.027 ± 0.019	0.032 ± 0.019	1.016 ± 1.073	1.524 ± 1.073	1.806 ± 1.073
1335+552	Q	1.096	C3	2	2	1.97	49604.6667	2.410 ± —	-0.247 ± —	0.116 ± —	-0.066 ± —	0.122 ± —	0.054 ± —	0.133 ± —	6.887 ± —	3.048 ± —	7.508 ± —
1335+552	Q	1.096	C4	3	2	3.89	49604.6667	3.250 ± —	-0.945 ± —	0.116 ± —	-0.021 ± —	0.117 ± —	-0.012 ± —	0.118 ± —	6.605 ± —	-0.677 ± —	6.661 ± —
1337+637	Q	2.558	C1	3	2	1.97	49604.6667	0.134 ± —	-1.564 ± —	0.117 ± —	-0.133 ± —	0.143 ± —	-0.105 ± —	0.178 ± —	13.579 ± —	-9.971 ± —	16.903 ± —
1337+637	Q	2.558	C2	1	3	3.89	49604.6667	-0.633 ± 0.074	-2.116 ± 0.074	-0.090 ± 0.046	-0.005 ± 0.046	0.030 ± 0.046	0.085 ± 0.047	0.090 ± 0.046	2.849 ± 4.368	8.072 ± 4.463	8.546 ± 4.368
1337+637	Q	2.558	C3	3	2	3.89	49604.6667	-2.289 ± —	-4.278 ± —	-0.030 ± —	0.013 ± —	0.003 ± —	0.033 ± —	0.033 ± —	0.285 ± —	3.134 ± —	3.134 ± —
1337+637	Q	2.558	C4	2	2	3.89	49604.6667	-3.476 ± —	-5.864 ± —	-0.103 ± —	0.053 ± —	0.006 ± —	0.115 ± —	0.116 ± —	0.570 ± —	10.920 ± —	11.015 ± —
1337+637	Q	2.558	CC1	2	2	1.97	49604.6667	0.918 ± —	0.058 ± —	0.032 ± —	-0.081 ± —	0.027 ± —	0.083 ± —	0.087 ± —	2.564 ± —	7.882 ± —	8.262 ± —
1347+539	Q	0.980	C1	2	3	6.44	49017.3333	0.507 ± 0.079	-0.755 ± 0.079	-0.010 ± 0.030	-0.038 ± 0.030	0.025 ± 0.030	0.030 ± 0.028	0.039 ± 0.030	1.299 ± 1.559	1.559 ± 1.455	2.026 ± 1.559
1347+539	Q	0.980	C2	2	3	6.44	49017.3333	1.443 ± 0.146	-1.475 ± 0.146	0.081 ± 0.047	-0.141 ± 0.047	0.157 ± 0.047	0.041 ± 0.055	0.162 ± 0.047	8.158 ± 2.442	2.130 ± 2.858	8.418 ± 2.442
1347+539	Q	0.980	C3	3	3	6.44	49017.3333	2.136 ± 0.243	-2.571 ± 0.243	-0.005 ± 0.091	0.034 ± 0.091	-0.029 ± 0.091	-0.018 ± 0.093	0.034 ± 0.091	-1.507 ± 4.728	-0.935 ± 4.832	1.767 ± 4.728
1347+539	Q	0.980	C4	3	2	4.20	49017.3333	2.873 ± —	-3.665 ± —	0.172 ± —	-0.099 ± —	0.184 ± —	-0.075 ± —	0.199 ± —	9.561 ± —	-3.897 ± —	10.340 ± —
1347+539	Q	0.980	C5	2	3	6.44	49017.3333	4.250 ± 0.178	-5.010 ± 0.178	0.039 ± 0.072	-0.057 ± 0.072	0.069 ± 0.072	0.007 ± 0.071	0.070 ± 0.072	3.585 ± 3.741	0.364 ± 3.689	3.637 ± 3.741
1347+539	Q	0.980	C6	3	3	6.44	49017.3333	6.105 ± 0.223	-7.750 ± 0.223	-0.138 ± 0.085	-0.001 ± 0.085	-0.085 ± 0.085	0.109 ± 0.086	0.138 ± 0.085	-4.417 ± 4.417	5.664 ± 4.469	7.171 ± 4.417
1347+539	Q	0.980	C7	3	3	6.44	49017.3333	8.775 ± 0.180	-9.831 ± 0.180	0.098 ± 0.063	-0.071 ± 0.063	0.118 ± 0.063	-0.026 ± 0.064	0.121 ± 0.063	6.131 ± 3.274	-1.351 ± 3.325	6.287 ± 3.274
1347+539	Q	0.980	C8	3	3	6.44	49017.3333	15.430 ± 0.197	-10.148 ± 0.197	0.002 ± 0.067	-0.104 ± 0.067	0.059 ± 0.067	0.086 ± 0.067	0.104 ± 0.067	3.066 ± 3.481	4.469 ± 3.481	5.404 ± 3.481
1355+441	G	0.646	C1	2	4	4.25	50656.5000	-1.376 ± 0.124	0.132 ± 0.124	-0.031 ± 0.080	0.014 ± 0.080	0.032 ± 0.080	0.011 ± 0.079	0.034 ± 0.080	1.192 ± 2.980	0.410 ± 2.942	1.266 ± 2.980
1355+441	G	0.646	C2	3	4	4.25	50656.5000	-7.240 ± 0.194	6.544 ± 0.194	0.086 ± 0.129	0.121 ± 0.129	0.018 ± 0.129	0.147 ± 0.128	0.148 ± 0.129	0.670 ± 4.805	5.475 ± 4.767	5.512 ± 4.805
1355+441	G	0.646	C3	2	4	4.25	50656.5000	-10.205 ± 0.042	6.175 ± 0.042	-0.035 ± 0.022	-0.081 ± 0.022	-0.012 ± 0.022	-0.087 ± 0.022	0.088 ± 0.022	-0.447 ± 0.819	-3.240 ± 0.819	3.278 ± 0.819
1355+441	G	0.646	C4	3	3	2.45	50656.5000	-11.264 ± 0.063	5.545 ± 0.063	-0.111 ± 0.045							



(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)
Source	Cl	z	Id	q	n.ep.	span [year]	ref.ep.	$X_0 \pm \Delta X_0$ [mas]	$Y_0 \pm \Delta Y_0$ [mas]	$\mu^x \pm \Delta \mu^x$ [mas/year]	$\mu^y \pm \Delta \mu^y$ [mas/year]	$\mu^r \pm \Delta \mu^r$ [mas/year]	$\mu^\theta \pm \Delta \mu^\theta$ [mas/year]	$\mu^{\text{tot}} \pm \Delta \mu^{\text{tot}}$ [mas/year]	$\beta_{\text{app}}^r$ [c]	$\beta_{\text{app}}^\theta$ [c]	$\beta_{\text{app}}^{\text{tot}}$ [c]
1356+478	G	0.230	C3	1	4	4.23	50656.5000	-5.608±0.008	-2.269±0.008	0.009±0.005	-0.004±0.005	-0.007±0.005	-0.007±0.005	0.010±0.005	-0.102±0.073	-0.102±0.073	0.146±0.073
1357+769	B		C1	1	3	5.20	49292.3333	-1.047±0.084	-0.386±0.084	0.000±0.040	0.005±0.040	-0.002±0.040	0.005±0.040	0.005±0.040			
1413+373	Q	2.360	C1	2	3	4.67	49984.6667	4.583±0.048	-2.366±0.048	-0.016±0.026	-0.057±0.026	0.012±0.026	0.058±0.026	0.059±0.026	1.094±2.370	5.287±2.370	5.378±2.370
1415+463	Q	1.552	C1	1	4	4.67	50066.5000	-1.298±0.009	-0.209±0.009	-0.048±0.005	-0.013±0.005	0.049±0.005	-0.005±0.005	0.050±0.005	3.507±0.358	-0.358±0.358	3.579±0.358
1415+463	Q	1.552	C2	1	4	4.67	50066.5000	-3.714±0.088	-0.623±0.088	-0.020±0.057	-0.079±0.057	0.033±0.057	-0.074±0.057	0.081±0.057	2.362±4.080	-5.296±4.080	5.797±4.080
1415+463	Q	1.552	C3	2	4	4.67	50066.5000	-11.888±0.020	-1.655±0.020	-0.068±0.012	-0.022±0.012	0.070±0.012	-0.012±0.012	0.071±0.012	5.010±0.859	-0.859±0.859	5.082±0.859
1418+546	B	0.151	C1	2	2	2.24	49017.3333	0.955±	-0.809±	0.190±	-0.180±	0.262±	0.015±	0.262±	2.562±	0.147±	2.562±
1418+546	B	0.151	C2	2	2	2.24	49017.3333	1.597±	-1.268±	0.202±	-0.154±	0.254±	-0.005±	0.254±	2.484±	-0.049±	2.484±
1418+546	B	0.151	C3	1	3	6.44	49017.3333	3.514±0.132	-2.549±0.132	0.158±0.061	-0.137±0.061	0.208±0.061	0.019±0.057	0.209±0.061	2.034±0.597	0.186±0.557	2.044±0.597
1421+482	Q	2.220	C1	2	3	4.67	49984.6667	-0.749±0.054	0.064±0.054	-0.119±0.025	0.021±0.025	0.121±0.025	0.011±0.020	0.121±0.025	10.680±2.207	0.971±1.765	10.680±2.207
1421+482	Q	2.220	C2	2	3	4.67	49984.6667	-2.803±0.063	0.720±0.063	0.027±0.038	-0.053±0.038	-0.039±0.038	-0.045±0.038	0.059±0.038	-3.442±3.354	-3.972±3.354	5.207±3.354
1424+366	B	1.091	C1	1	3	4.92	49985.0000	-0.808±0.046	-0.847±0.046	-0.029±0.022	-0.078±0.022	0.076±0.022	-0.032±0.019	0.083±0.022	4.276±1.238	-1.800±1.069	4.670±1.238
1427+543	Q	2.991	C1	2	4	4.67	49984.6667	0.721±0.197	-0.754±0.197	0.012±0.118	-0.004±0.118	0.011±0.118	-0.006±0.118	0.013±0.118	1.125±12.072	-0.614±12.072	1.330±12.072
1432+422	Q	1.240	C1	3	3	4.24	50770.0000	0.706±0.023	-1.018±0.023	0.102±0.011	-0.268±0.011	0.278±0.012	0.069±0.008	0.287±0.011	17.135±0.740	4.253±0.493	17.690±0.678
1435+638	Q	2.068	C1	1	3	6.44	49017.0000	-0.831±0.002	-0.494±0.002	-0.026±0.001	-0.016±0.001	0.031±0.001	0.000±0.001	0.031±0.001	2.632±0.085	0.000±0.085	2.632±0.085
1435+638	Q	2.068	C2	1	3	6.44	49017.0000	-1.670±0.147	-0.928±0.147	0.046±0.070	0.012±0.070	-0.046±0.070	-0.012±0.073	0.048±0.070	-3.906±5.944	-1.019±6.199	4.076±5.944
1435+638	Q	2.068	C3	1	3	6.44	49017.0000	-2.769±0.082	-2.085±0.082	-0.039±0.030	-0.048±0.030	0.060±0.030	-0.014±0.029	0.062±0.030	5.095±2.547	-1.189±2.462	5.264±2.547
1435+638	Q	2.068	C4	1	3	6.44	49017.0000	-5.959±0.056	-7.721±0.056	-0.035±0.018	-0.012±0.018	0.031±0.018	0.021±0.018	0.037±0.018	2.632±1.528	1.783±1.528	3.142±1.528
1438+385	Q	1.775	C1	2	3	4.20	49567.6667	0.029±0.092	0.819±0.092	-0.007±0.051	0.040±0.051	0.040±0.051	-0.008±0.051	0.041±0.051	3.110±3.965	-0.622±3.965	3.188±3.965
1438+385	Q	1.775	C2	1	3	4.20	49567.6667	-0.505±0.012	2.302±0.012	-0.008±0.006	0.032±0.006	0.033±0.006	-0.001±0.006	0.033±0.006	2.566±0.467	-0.078±0.467	2.566±0.467
1438+385	Q	1.775	C3	2	3	4.20	49567.6667	-1.434±0.260	5.216±0.260	0.032±0.144	-0.175±0.144	-0.177±0.144	-0.015±0.146	0.178±0.144	-13.762±11.196	-1.166±11.352	13.840±11.196
1442+637	Q	1.380	C1	2	3	4.20	49567.6667	-0.130±1.213	-6.849±1.213	-0.106±0.743	-0.838±0.743	0.840±0.743	0.090±0.854	0.844±0.743	55.692±49.261	5.967±56.620	55.957±49.261
1442+637	Q	1.380	C2	2	3	4.20	49567.6667	-1.587±0.039	-8.431±0.039	-0.080±0.022	0.102±0.022	-0.086±0.022	0.098±0.022	0.130±0.022	-5.702±1.459	6.497±1.459	8.619±1.459
1442+637	Q	1.380	C3	2	3	4.20	49567.6667	-0.904±0.054	-9.093±0.054	-0.091±0.032	0.040±0.032	-0.031±0.032	0.095±0.032	0.100±0.032	-2.055±2.122	6.298±2.122	6.630±2.122
1448+762	Q	0.899	C1	1	3	4.67	49987.6667	0.898±0.077	0.104±0.077	0.092±0.035	-0.001±0.035	0.091±0.035	0.012±0.028	0.092±0.035	4.427±1.703	0.584±1.362	4.475±1.703
1448+762	Q	0.899	C2	2	3	4.67	49987.6667	2.004±0.044	0.270±0.044	0.052±0.019	0.031±0.019	0.056±0.019	-0.023±0.019	0.060±0.019	2.724±0.924	-1.119±0.924	2.919±0.924
1456+375	G	0.333	C1	1	4	4.66	50067.0000	1.131±0.027	-0.690±0.027	0.128±0.014	-0.059±0.014	0.141±0.014	-0.008±0.013	0.141±0.014	2.920±0.290	-0.166±0.269	2.920±0.290
1459+480	B	1.059	C1	1	3	4.68	49984.6667	1.132±0.040	0.166±0.040	0.011±0.026	-0.008±0.026	0.010±0.026	0.010±0.026	0.014±0.026	0.551±1.431	0.551±1.431	0.771±1.431
1459+480	B	1.059	C2	1	3	4.68	49984.6667	3.709±0.034	0.433±0.034	0.012±0.017	-0.028±0.017	0.009±0.017	0.029±0.017	0.031±0.017	0.495±0.936	1.596±0.936	1.707±0.936
1459+480	B	1.059	C3	3	3	4.68	49984.6667	6.735±0.041	2.357±0.041	-0.015±0.021	0.000±0.021	-0.014±0.021	-0.005±0.022	0.015±0.021	-0.771±1.156	-0.275±1.211	0.826±1.156
1504+377 G, Sy II	0.672	C1	1	3	4.20	49567.6667	-0.992±0.082	-1.203±0.082	-0.183±0.043	-0.205±0.043	0.274±0.043	0.011±0.031	0.274±0.043	10.547±1.655	0.423±1.193	10.547±1.655	
1504+377	G	0.672	C2	1	3	4.20	49567.6667	-1.541±0.078	-1.624±0.078	-0.096±0.042	-0.142±0.042	0.169±0.042	-0.029±0.044	0.171±0.042	6.505±1.617	-1.116±1.694	6.582±1.617
1504+377	G	0.672	C3	3	2	1.92	49567.6667	-4.536±	-4.326±	-0.181±	-0.173±	0.250±	0.000±	0.250±	9.623±	0.000±	9.623±
1504+377	G	0.672	C4	2	3	4.20	49567.6667	-8.048±0.137	-7.884±0.137	-0.050±0.086	-0.018±0.086	0.092±0.086	-0.023±0.086	0.095±0.086	3.541±3.310	-0.885±3.310	3.657±3.310
1505+428	G	0.587	C0	2	2	2.47	49985.6667	-0.673±	-0.114±	0.033±	0.002±	-0.033±	-0.003±	0.033±	-1.133±	-0.103±	1.133±
1505+428	G	0.587	C1	1	3	4.67	49985.6667	-1.471±0.131	-0.157±0.131	-0.229±0.064	-0.021±0.064	0.230±0.064	0.004±0.050	0.230±0.064	7.899±2.198	0.137±1.717	7.899±2.198
1505+428	G	0.587	C2	2	3	4.67	49985.6667	-2.561±0.157	-0.465±0.157	-0.133±0.075	-0.003±0.075	0.132±0.075	0.021±0.074	0.133±0.075	4.533±2.576	0.721±2.541	4.567±2.576
1505+428	G	0.587	C3	2	3	4.67	49985.6667	-5.520±0.076	-1.263±0.076	-0.064±0.038	0.036±0.038	0.055±0.038	0.049±0.038	0.074±0.038	1.889±1.305	1.683±1.305	2.541±1.305
1505+428	G	0.587	C4	2	3	4.67	49985.6667	-7.216±0.008	-1.601±0.008	-0.123±0.005	0.024±0.005	0.115±0.005	0.050±0.005	0.125±0.005	3.949±0.172	1.717±0.172	4.293±0.172
1526+670	Q	3.020	C1	2	3	3.90	49603.6667	0.581±0.008	0.664±0.008	-0.011±0.005	-0.016±0.005	-0.019±0.005	0.003±0.005	0.019±0.005	-1.952±0.514	0.308±0.514	1.952±0.514
1526+670	Q	3.020	C2	3	3	3.90	49603.6667	1.292±0.080	1.176±0.080	-0.037±0.049	0.003±0.049	-0.025±0.049	-0.027±0.048	0.037±0.049	-2.569±5.035	-2.774±4.932	3.802±5.035
1534+501	Q	1.121	C1	2	3	4.67	49985.3333	-0.695±0.001	0.971±0.001	-0.018±0.001	0.029±0.001	0.034±0.001	0.002±0.001	0.034±0.001	1.951±0.057	0.115±0.057	1.951±0.057
1543+480	Q	1.277	C1	1	4	6.70	50365.7500	0.899±0.069	-1.077±0.069	-0.022±0.028	0.028±0.028	-0.036±0.028	-0.001±0.028	0.036±0.028	-2.265±1.761	-0.063±1.761	2.265±1.761
1543+480	Q	1.277	C2	3	2	6.70	50365.7500	1.610±	-2.058±	0.004±	0.001±	0.002±	-0.005±	0.005±	0.126±	-0.315±	0.315±
1543+480	Q	1.277	C3	3	4	4.24	50365.7500	3.979±0.237	-2.191±0.237	0.205±0.142	-0.016±0.142	0.188±0.142	-0.085±0.145	0.206±0.142	11.826±8.995	-5.347±9.121	12.958±8.932
1543+480	Q	1.277	C4	2	4	6.70	50365.7500	31.496±0.051	-15.048±0.051	-0.005±0.019	-0.002±0.019	-0.004±0.019	0.004±0.019	0.006±0.019	-0.252±1.195	0.252±1.195	0.377±1.195
1543+480	Q	1.277	C5	1	4	6.70	50365.7500	48.911±0.084	-38.738±0.084	0.208±0.038	-0.241±0.038	0.313±0.038	0.060±0.037	0.319±0.038	19.689±2.390	3.774±2.327	20.066±2.390
1543+517	Q	1.924	C1	1	3	5.50	49984.6667	-0.014±0.046	-0.662±0.046	-0.020±0.029	-0.010±0.029	0.010±0.029	0.020±0.028	0.022±0.029	0.815±2.364	1.630±2.282	1.793±2.364
1543+517	Q	1.924	C2	1	3	5.50	49984.6667	-0.430±0.094	-2.378±0.094	0.011±0.050	-0.065±0.050	0.062±0.050	-0.022±0.050	0.066±0.050	5.054±4.076	-1.793±4.076	5.380±4.076
1543+517	Q	1.924	C3	2	3	5.50	49984.6667	-0.080±0.061	-5.174±0.061	0.001±0.031	0.059±0.031	-0.059±0.031	0.000±0.031	0.059±0.031	-4.809±2.527	0.000±2.527	4.809±2.527
1543+517	Q	1.924	C4	1	3	5.50	49984.6667	4.296±0.022	-24.433±0.022	0.065±0.011	0.046±0.011	-0.034±0.011	-0.072±0.011	0.080±0.011	-2.772±0.897	-5.869±0.897	6.521±0.897
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(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)
Source	Cl	z	Id	q	n.ep.	span [year]	ref.ep.	$X_0 \pm \Delta X_0$ [mas]	$Y_0 \pm \Delta Y_0$ [mas]	$\mu^x \pm \Delta \mu^x$ [mas/year]	$\mu^y \pm \Delta \mu^y$ [mas/year]	$\mu^r \pm \Delta \mu^r$ [mas/year]	$\mu^\sigma \pm \Delta \mu^\sigma$ [mas/year]	$\mu^{\text{tot}} \pm \Delta \mu^{\text{tot}}$ [mas/year]	$\beta_{\text{app}}^r$ [c]	$\beta_{\text{app}}^\sigma$ [c]	$\beta_{\text{app}}^{\text{tot}}$ [c]
1547+507	Q	2.169	C6	1	3	4.20	49567.6667	-5.472±0.016	-4.701±0.016	-0.007±0.009	-0.003±0.009	0.007±0.009	0.002±0.009	0.007±0.009	0.610±0.784	0.174±0.784	0.610±0.784
1550+582	Q	1.324	C1	3	3	4.67	49992.0000	0.290±0.042	-0.890±0.042	-0.012±0.020	0.069±0.020	-0.069±0.020	-0.010±0.020	0.070±0.020	-4.449±1.290	-0.645±1.290	4.513±1.290
1550+582	Q	1.324	C2	3	2	2.44	49992.0000	0.908±	-2.005±	-0.028±	0.049±	-0.056±	0.005±	0.056±	-3.611±	0.322±	3.611±
1619+491	Q	1.513	C1	1	3	4.67	49992.0000	0.181±0.026	1.341±0.026	-0.003±0.015	0.080±0.015	0.079±0.015	-0.014±0.015	0.080±0.015	5.563±1.056	-0.986±1.056	5.633±1.056
1619+491	Q	1.513	C2	1	3	4.67	49992.0000	0.362±0.045	6.945±0.045	0.015±0.022	0.056±0.022	0.056±0.022	0.012±0.022	0.058±0.022	3.943±1.549	0.845±1.549	4.084±1.549
1619+491	Q	1.513	C3	3	3	4.67	49992.0000	1.302±0.090	10.775±0.090	-0.094±0.044	-0.032±0.044	-0.043±0.044	-0.090±0.044	0.099±0.044	-3.028±3.098	-6.338±3.098	6.971±3.098
1622+665	G	0.201	C1	2	3	4.24	50769.6667	0.537±0.020	0.353±0.020	-0.009±0.011	0.032±0.011	0.010±0.011	-0.032±0.011	0.033±0.011	0.129±0.142	-0.412±0.142	0.425±0.142
1623+578	G	0.789	C1	2	2	1.77	50772.6667	-0.695±	-0.040±	-0.123±	0.001±	0.123±	0.008±	0.123±	5.398±	0.351±	5.398±
1623+578	G	0.789	C2	1	3	4.21	50772.6667	-1.578±0.073	-0.240±0.073	-0.196±0.042	-0.108±0.042	0.210±0.042	-0.078±0.039	0.224±0.042	9.217±1.843	-3.423±1.712	9.831±1.843
1623+578	G	0.789	C3	1	3	4.21	50772.6667	-3.714±0.033	-1.290±0.033	-0.210±0.017	-0.124±0.017	0.239±0.017	-0.048±0.016	0.244±0.017	10.490±0.746	-2.107±0.702	10.709±0.746
1623+578	G	0.789	C4	3	2	2.44	50772.6667	-5.867±	-2.714±	-0.235±	-0.120±	0.263±	-0.011±	0.264±	11.543±	-0.483±	11.587±
1624+416	Q	2.550	C1	1	3	4.33	51236.3333	-0.981±0.035	-0.416±0.035	-0.085±0.018	-0.021±0.018	0.086±0.018	0.014±0.019	0.087±0.018	8.154±1.707	1.327±1.801	8.249±1.707
1624+416	Q	2.550	C2	1	3	4.33	51236.3333	-1.906±0.083	-0.837±0.083	-0.054±0.045	-0.092±0.045	0.087±0.046	-0.063±0.046	0.107±0.045	8.249±4.361	-5.973±4.361	10.145±4.267
1624+416	Q	2.550	C3	2	3	4.33	51236.3333	-2.085±0.109	-2.544±0.109	-0.069±0.050	-0.089±0.050	0.112±0.050	-0.003±0.048	0.112±0.050	10.619±4.741	-0.284±4.551	10.619±4.741
1624+416	Q	2.550	C4	3	3	4.33	51236.3333	-1.201±0.256	0.499±0.256	-0.035±0.183	-0.121±0.183	-0.014±0.184	-0.126±0.182	0.126±0.183	-1.327±17.446	-11.946±17.256	11.946±17.351
1629+495	Q	0.520	C1	3	3	4.68	49987.6667	-0.640±0.087	-0.309±0.087	-0.042±0.039	-0.036±0.039	0.053±0.039	-0.014±0.033	0.055±0.039	1.639±1.206	-0.433±1.021	1.701±1.206
1629+495	Q	0.520	C2	3	3	4.68	49987.6667	-1.763±0.126	-0.765±0.126	-0.154±0.060	-0.050±0.060	0.161±0.060	0.015±0.057	0.162±0.060	4.979±1.856	0.464±1.763	5.010±1.856
1629+495	Q	0.520	C3	3	2	2.44	49987.6667	-4.458±	-2.052±	-0.332±	-0.011±	0.306±	0.129±	0.332±	9.464±	3.990±	10.268±
1633+382	Q	1.807	C1	1	3	4.33	51236.3333	-1.144±0.059	0.158±0.059	-0.064±0.031	0.005±0.031	0.064±0.031	-0.004±0.030	0.065±0.031	5.029±2.436	-0.314±2.357	5.108±2.436
1633+382	Q	1.807	C2	2	3	4.33	51236.3333	-2.047±0.095	0.202±0.095	-0.155±0.063	-0.009±0.063	0.153±0.063	-0.024±0.064	0.155±0.063	12.023±4.951	-1.886±5.029	12.180±4.951
1633+382	Q	1.807	C3	3	3	4.33	51236.3333	-4.126±0.167	2.037±0.167	-0.033±0.102	0.070±0.102	0.070±0.102	0.067±0.102	0.097±0.102	5.501±8.015	5.265±8.015	7.622±8.015
1636+473	Q	0.740	C1	2	3	4.67	49989.0000	-0.453±0.044	1.195±0.044	-0.066±0.024	0.109±0.024	0.125±0.024	-0.024±0.024	0.127±0.024	5.209±1.000	-1.000±1.000	5.293±1.000
1636+473	Q	0.740	C2	3	3	4.67	49989.0000	-1.329±0.116	2.382±0.116	-0.102±0.054	0.052±0.054	0.095±0.054	-0.063±0.051	0.114±0.054	3.959±2.250	-2.625±2.125	4.751±2.250
1636+473	Q	0.740	C3	2	2.23	49989.0000	-3.714±	7.505±	0.198±	0.227±	0.116±	0.278±	0.301±	4.834±	11.585±	12.544±	12.544±
1636+473	Q	0.740	C4	3	2	2.44	49989.0000	-5.335±	8.892±	-0.012±	0.007±	0.012±	-0.007±	0.014±	0.500±	-0.292±	0.583±
1637+574	Q	0.749	C1	1	3	4.33	51236.3333	-0.404±0.011	-1.034±0.011	-0.067±0.007	-0.116±0.007	0.133±0.007	0.020±0.007	0.134±0.007	5.597±0.295	0.842±0.295	5.639±0.295
1637+574	Q	0.749	C2	2	3	4.33	51236.3333	-0.996±0.039	-2.851±0.039	-0.109±0.019	-0.204±0.019	0.229±0.019	0.035±0.019	0.231±0.019	9.637±0.800	1.473±0.800	9.722±0.800
1638+540	Q	1.977	C1	2	3	4.93	49988.0000	-0.532±0.032	-1.017±0.032	-0.027±0.014	-0.052±0.014	0.059±0.014	0.000±0.014	0.059±0.014	4.885±1.159	0.000±1.159	4.885±1.159
1641+399	Q	0.595	C0	3	2	1.07	51236.3333	-0.945±	-0.266±	0.135±	0.114±	-0.160±	0.073±	0.176±	-5.559±	2.536±	6.114±
1641+399	Q	0.595	C1	3	3	4.33	51236.3333	-1.267±0.085	-0.072±0.085	-0.105±0.043	-0.035±0.043	0.107±0.043	-0.029±0.043	0.111±0.043	3.717±1.494	-1.007±1.494	3.856±1.494
1641+399	Q	0.595	C2	3	2	1.07	51236.3333	-2.700±	-0.225±	-0.117±	0.029±	0.114±	0.039±	0.120±	3.960±	1.355±	4.169±
1641+399	Q	0.595	C3	3	3	4.33	51236.3333	-5.235±0.531	1.626±0.531	-0.036±0.240	-0.095±0.240	0.006±0.240	-0.102±0.239	0.102±0.240	0.208±8.338	-3.544±8.303	3.544±8.338
1641+399	Q	0.595	C4	2	3	4.33	51236.3333	-7.288±0.021	3.026±0.021	-0.050±0.013	0.026±0.013	0.056±0.013	0.004±0.013	0.056±0.013	1.945±0.452	0.139±0.452	1.945±0.452
1642+690	Q	0.751	C1	2	2	3.25	50907.5000	-0.004±	-0.907±	-0.021±	-0.048±	0.048±	0.021±	0.053±	2.024±	0.886±	2.235±
1642+690	Q	0.751	C2	3	2	3.25	50907.5000	-0.699±	-2.322±	-0.137±	-0.369±	0.393±	0.025±	0.394±	16.575±	1.054±	16.617±
1642+690	Q	0.751	C3	3	2	3.25	50907.5000	-1.485±	-6.100±	-0.045±	-0.240±	0.244±	-0.013±	0.245±	10.291±	-0.548±	10.333±
1642+690	Q	0.751	C4	3	2	3.25	50907.5000	-2.556±0.239	-9.492±0.239	0.045±0.146	0.075±0.146	-0.084±0.146	-0.024±0.147	0.087±0.146	-3.543±6.158	-1.012±6.200	3.669±6.158
1645+410	Q	0.835	C1	2	3	4.67	49989.0000	1.112±0.020	-0.979±0.020	0.131±0.011	-0.072±0.011	0.146±0.011	-0.032±0.010	0.149±0.011	6.704±0.505	-1.469±0.459	6.841±0.505
1645+410	Q	0.835	C2	3	2	2.25	49989.0000	2.305±	-1.493±	0.206±	0.016±	0.164±	-0.126±	0.207±	7.530±	-5.785±	9.504±
1645+635	Q	2.379	C1	3	3	3.91	49605.3333	0.096±0.159	1.795±0.159	0.081±0.106	0.181±0.106	0.185±0.106	0.071±0.108	0.198±0.106	16.933±9.702	6.499±9.885	18.123±9.702
1645+635	Q	2.379	C2	2	3	3.91	49605.3333	1.265±0.066	3.397±0.066	-0.005±0.040	0.053±0.040	0.048±0.040	-0.023±0.040	0.053±0.040	4.394±3.661	-2.105±3.661	4.851±3.661
1652+398	B	0.034	C1	3	3	3.26	50889.0000	0.379±0.072	-0.812±0.072	-0.033±0.049	0.028±0.049	-0.039±0.049	0.018±0.048	0.043±0.049	-0.088±0.111	0.041±0.108	0.097±0.111
1652+398	B	0.034	C2	1	3	3.26	50889.0000	1.513±0.024	-2.398±0.024	0.042±0.017	-0.088±0.017	0.097±0.017	0.012±0.017	0.098±0.017	0.219±0.038	0.027±0.038	0.221±0.038
1652+398	B	0.034	C3	3	3	3.26	50889.0000	3.787±0.174	-2.990±0.174	0.007±0.225	-0.292±0.225	0.187±0.225	0.225±0.224	0.293±0.225	0.422±0.507	0.507±0.505	0.661±0.507
1652+398	B	0.034	C4	3	3	3.26	50889.0000	7.173±0.270	-3.237±0.270	0.236±0.184	0.163±0.184	0.148±0.185	-0.245±0.185	0.286±0.184	0.334±0.417	-0.553±0.417	0.645±0.415
1652+398	B	0.034	C5	3	2	3.26	50889.0000	9.727±	-3.555±	0.206±	0.341±	0.077±	-0.391±	0.398±	0.174±	-0.882±	0.898±
1656+477	Q	1.622	C1	2	2	4.20	49017.3333	-0.002±	0.672±	-0.009±	0.102±	0.102±	-0.009±	0.102±	7.506±	-0.662±	7.506±
1656+477	Q	1.622	C2	2	3	6.44	49017.3333	-0.109±0.046	1.395±0.046	-0.028±0.017	0.298±0.017	0.299±0.017	-0.004±0.007	0.299±0.017	22.003±1.251	-0.294±0.515	22.003±1.251
1656+477	Q	1.622	C3	3	3	6.44	49017.3333	-2.179±0.041	4.673±0.041	-0.056±0.014	0.158±0.014	0.167±0.014	0.016±0.013	0.168±0.014	12.289±1.030	1.177±0.957	12.363±1.030
1656+477	Q	1.622	C4	3	3	6.44	49017.3333	-2.101±0.046	6.400±0.046	-0.022±0.020	0.115±0.020	0.116±0.020	0.015±0.020	0.117±0.020	8.536±1.472	1.104±1.472	8.610±1.472
1656+482	G		C1	1	3	4.90	49327.0000	-0.720±0.009	-0.194±0.009	-0.007±0.004	0.008±0.004	0.005±0.004	0.010±0.005	0.011±0.004			
1656+482	G		C2	1	3	4.90	49327.0000	-1.663±0.076	-0.749±0.076	-0.097±0.033	-0.028±0.033	0.100±0.033	0.014±0.035	0.101±0.033			
1656+571	Q	1.281	C1	3	3	3.91	49605.0000	0.606±0.111	0.506±0.111	0.063±0.073	0.005±0.073	0.052±0.073	0.036±0.074	0.064±0.073	3.278±4.602	2.269±4.665	4.034±4.602
1656+571	Q	1.281	C2	3	2	1.97	496										

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)
Source	Cl	z	Id	q	n.ep.	span [year]	ref.ep.	$X_0 \pm \Delta X_0$ [mas]	$Y_0 \pm \Delta Y_0$ [mas]	$\mu^x \pm \Delta \mu^x$ [mas/year]	$\mu^y \pm \Delta \mu^y$ [mas/year]	$\mu^r \pm \Delta \mu^r$ [mas/year]	$\mu^\circ \pm \Delta \mu^\circ$ [mas/year]	$\mu^{\text{tot}} \pm \Delta \mu^{\text{tot}}$ [mas/year]	$\beta_{\text{app}}^{\text{tot}}$ [c]	$\beta_{\text{app}}^\circ$ [c]	$\beta_{\text{app}}^{\text{tot}}$ [c]
1716+686	Q	0.339	C1	1	3	4.20	49567.6667	-0.260±0.040	0.493±0.040	-0.008±0.023	0.023±0.023	0.024±0.023	0.003±0.022	0.024±0.023	0.505±0.484	0.063±0.463	0.505±0.484
1716+686	Q	0.339	C2	2	3	4.20	49567.6667	-1.015±0.212	1.576±0.212	0.045±0.109	-0.063±0.109	-0.078±0.109	0.003±0.116	0.078±0.109	-1.642±2.295	0.063±2.442	1.642±2.295
1716+686	Q	0.339	C3	3	2	1.92	49567.6667	-3.067±—	3.890±—	-0.008±—	0.076±—	0.065±—	0.041±—	0.077±—	1.368±—	0.863±—	1.621±—
1719+357	Q	0.263	C1	2	3	4.90	49328.6667	0.007±0.109	-1.641±0.109	0.015±0.055	-0.326±0.055	0.326±0.055	-0.014±0.045	0.326±0.055	5.418±0.914	-0.233±0.748	5.418±0.914
1719+357	Q	0.263	C2	2	3	4.90	49328.6667	0.109±0.116	-4.126±0.116	-0.007±0.056	-0.270±0.056	0.269±0.056	0.015±0.053	0.270±0.056	4.471±0.931	0.249±0.881	4.487±0.931
1719+357	Q	0.263	C3	2	3	4.90	49328.6667	0.175±0.101	-5.386±0.101	0.010±0.059	-0.276±0.059	0.276±0.059	-0.001±0.058	0.276±0.059	4.587±0.981	-0.017±0.964	4.587±0.981
1722+401	Q	1.049	C1	3	3	4.66	49988.3333	-0.652±0.096	0.520±0.096	-0.058±0.051	0.044±0.051	0.073±0.051	-0.002±0.048	0.073±0.051	3.991±2.788	-0.109±2.624	3.991±2.788
1722+401	Q	1.049	C2	3	2	2.43	49988.3333	-2.783±0.358	1.619±0.358	-0.369±0.191	0.098±0.191	0.369±0.191	-0.101±0.224	0.382±0.191	20.172±10.441	-5.521±12.245	20.883±10.441
1722+401	Q	1.049	C3	2	2	2.43	49988.3333	-4.681±—	3.497±—	-0.123±—	0.148±—	0.187±—	0.045±—	0.193±—	10.223±—	2.460±—	10.551±—
1726+455	Q	0.717	C1	1	3	4.66	49985.6667	-1.319±0.035	0.159±0.035	-0.135±0.020	-0.034±0.020	0.130±0.020	-0.050±0.019	0.140±0.020	5.279±0.812	-2.031±0.772	5.686±0.812
1732+389	Q	0.970	C1	2	3	6.44	49297.0000	0.404±0.069	-0.243±0.069	0.027±0.021	-0.010±0.021	0.029±0.021	-0.005±0.019	0.029±0.021	1.495±1.083	-0.258±0.980	1.495±1.083
1732+389	Q	0.970	C2	1	3	6.44	49297.0000	1.197±0.015	-0.098±0.015	0.048±0.007	-0.086±0.007	0.055±0.007	0.082±0.007	0.099±0.007	2.836±0.361	4.228±0.361	5.104±0.361
1732+389	Q	0.970	C3	2	3	6.44	49297.0000	3.192±0.107	-1.564±0.107	0.126±0.035	-0.197±0.035	0.199±0.035	0.122±0.032	0.234±0.035	10.260±1.805	6.290±1.650	12.065±1.805
1734+508	G	0.835	C1	2	3	4.91	49329.3333	0.214±0.040	0.688±0.040	-0.016±0.020	0.020±0.020	0.014±0.020	-0.021±0.020	0.026±0.020	0.643±0.918	-0.964±0.918	1.194±0.918
1734+508	G	0.835	C2	3	3	4.91	49329.3333	0.544±0.115	1.659±0.115	-0.008±0.050	-0.056±0.050	-0.056±0.050	0.010±0.049	0.056±0.050	-2.571±2.296	0.459±2.250	2.571±2.296
1734+508	G	0.835	C3	1	3	4.91	49329.3333	1.164±0.047	3.362±0.047	-0.021±0.023	-0.012±0.023	-0.018±0.023	-0.016±0.023	0.024±0.023	-0.826±1.056	-0.735±1.056	1.102±1.056
1738+476	B	0.950	C1	1	3	6.45	49019.0000	-0.447±0.028	-0.426±0.028	-0.063±0.011	-0.039±0.011	0.073±0.012	0.015±0.011	0.074±0.011	3.705±0.609	0.761±0.558	3.756±0.558
1738+476	B	0.950	C2	3	2	2.24	49019.0000	-1.304±—	-0.090±—	-0.089±—	0.012±—	0.088±—	0.019±—	0.090±—	4.466±—	0.964±—	4.568±—
1738+476	B	0.950	C3	3	2	4.21	49019.0000	-1.929±—	0.148±—	-0.056±—	0.088±—	0.062±—	0.084±—	0.104±—	3.147±—	4.263±—	5.278±—
1738+499	Q	1.545	C1	1	3	4.94	49951.3333	0.282±0.015	0.323±0.015	0.023±0.009	0.037±0.009	0.043±0.009	-0.006±0.009	0.043±0.009	3.069±0.642	-0.428±0.642	3.069±0.642
1738+499	Q	1.545	C2	2	3	4.94	49951.3333	0.314±0.121	1.192±0.121	0.052±0.052	0.117±0.052	0.126±0.052	0.128±0.047	0.128±0.047	8.992±3.711	1.427±3.354	9.135±3.711
1739+522	Q	1.381	C1	3	3	4.32	51238.0000	0.157±0.208	0.885±0.208	0.014±0.136	-0.172±0.136	-0.167±0.137	0.044±0.140	0.173±0.136	-11.077±9.087	2.919±9.286	11.475±9.021
1744+557	G	0.030	C1	1	3	3.25	50892.3333	-0.620±0.030	-0.308±0.030	0.005±0.023	-0.022±0.023	0.006±0.024	-0.022±0.024	0.023±0.023	0.012±0.048	-0.044±0.048	0.046±0.046
1744+557	G	0.030	C2	1	3	3.25	50892.3333	-1.552±0.018	-0.648±0.018	-0.041±0.013	-0.063±0.013	0.062±0.013	-0.043±0.012	0.075±0.013	0.123±0.026	-0.086±0.024	0.149±0.026
1744+557	G	0.030	C3	1	3	3.25	50892.3333	-3.020±0.067	-1.209±0.067	-0.033±0.055	-0.012±0.055	0.035±0.055	0.001±0.054	0.036±0.055	0.070±0.110	0.002±0.108	0.072±0.110
1744+557	G	0.030	C4	1	3	3.25	50892.3333	-4.476±0.091	-1.793±0.091	-0.107±0.065	0.011±0.065	0.096±0.065	0.050±0.066	0.108±0.065	0.191±0.129	0.100±0.131	0.215±0.129
1744+557	G	0.030	C5	2	3	3.25	50892.3333	-13.176±0.045	-4.850±0.045	0.033±0.032	-0.098±0.032	0.003±0.032	-0.103±0.032	0.104±0.032	0.006±0.064	-0.205±0.064	0.207±0.064
1745+624	Q	3.889	C1	2	3	3.91	49605.0000	-0.372±0.013	-0.601±0.013	-0.031±0.007	-0.003±0.007	0.019±0.007	0.025±0.007	0.031±0.007	2.172±0.800	2.858±0.800	3.545±0.800
1745+624	Q	3.889	C2	3	3	3.91	49605.0000	-0.934±0.186	-1.359±0.186	-0.022±0.138	-0.054±0.138	0.057±0.138	-0.012±0.140	0.058±0.138	6.517±15.779	-1.372±16.007	6.632±15.779
1746+470	Q	—	C1	3	3	4.94	49951.3333	-0.632±0.169	0.088±0.169	0.002±0.081	-0.003±0.081	-0.002±0.081	-0.003±0.081	0.003±0.081	—	—	—
1747+433	B	—	C1	1	3	4.92	49985.0000	-0.098±0.041	-1.039±0.041	0.005±0.025	0.016±0.025	-0.016±0.025	-0.003±0.025	0.017±0.025	—	—	—
1747+433	B	—	C2	2	3	4.92	49985.0000	0.099±0.111	-3.459±0.111	0.014±0.055	-0.068±0.055	0.068±0.055	-0.012±0.054	0.069±0.055	—	—	—
1747+433	B	—	C3	1	3	4.92	49985.0000	2.760±0.037	-13.018±0.037	-0.068±0.020	-0.030±0.020	0.016±0.020	0.073±0.020	0.074±0.020	—	—	—
1749+701	B	0.770	C1	2	3	4.16	51252.6667	-1.503±0.078	0.435±0.078	-0.238±0.045	0.098±0.045	0.256±0.045	0.028±0.045	0.257±0.045	11.018±1.937	1.205±1.937	11.061±1.937
1749+701	B	0.770	C2	3	3	4.16	51252.6667	-2.636±0.240	2.047±0.240	-0.129±0.116	0.319±0.116	0.298±0.116	0.173±0.107	0.344±0.116	12.825±4.992	7.446±4.605	14.805±4.992
1751+441	Q	0.871	C1	2	3	6.45	49019.0000	1.455±0.052	0.100±0.052	-0.002±0.018	0.003±0.018	-0.001±0.018	-0.003±0.018	0.004±0.018	-0.047±0.854	-0.142±0.854	0.190±0.854
1755+578	Q	2.110	C1	3	4	5.38	49828.2500	2.833±0.093	0.613±0.093	-0.074±0.052	-0.025±0.052	-0.078±0.052	0.009±0.050	0.078±0.052	-6.697±4.465	0.773±4.293	6.697±4.465
1755+578	Q	2.110	C2	1	4	5.38	49828.2500	7.322±0.028	1.241±0.028	0.073±0.014	0.004±0.014	0.073±0.014	0.009±0.014	0.073±0.014	6.268±1.202	0.773±1.202	6.268±1.202
1755+578	Q	2.110	C3	1	4	5.38	49828.2500	8.353±0.045	1.116±0.045	0.135±0.022	-0.023±0.022	0.131±0.022	0.040±0.022	0.137±0.022	11.248±1.889	3.434±1.889	11.763±1.889
1755+578	Q	2.110	C4	1	4	5.38	49828.2500	10.496±0.036	1.944±0.036	-0.036±0.016	-0.015±0.016	-0.038±0.016	0.008±0.016	0.039±0.016	-3.263±1.374	0.687±1.374	3.349±1.374
1755+578	Q	2.110	C5	1	4	5.38	49828.2500	11.064±0.043	2.057±0.043	-0.045±0.025	-0.008±0.025	-0.046±0.025	-0.001±0.025	0.046±0.025	-3.950±2.146	-0.086±2.146	3.950±2.146
1755+578	Q	2.110	C6	1	4	5.38	49828.2500	12.114±0.052	2.249±0.052	-0.037±0.028	-0.012±0.028	-0.039±0.028	0.005±0.028	0.039±0.028	-3.349±2.404	0.429±2.404	3.349±2.404
1755+578	Q	2.110	C7	2	3	3.41	49828.2500	12.983±0.046	2.507±0.046	0.064±0.034	0.045±0.034	0.071±0.034	-0.032±0.034	0.078±0.034	6.096±2.919	-2.748±2.919	6.697±2.919
1758+388	Q	2.092	C1	2	3	6.45	49019.0000	-0.585±0.049	-0.146±0.049	-0.028±0.020	-0.020±0.020	0.032±0.020	-0.013±0.018	0.035±0.020	2.735±1.709	-1.111±1.538	2.991±1.709
1758+388	Q	2.092	C2	3	3	6.45	49019.0000	-1.834±0.042	-0.179±0.042	-0.009±0.015	-0.004±0.015	0.010±0.015	-0.003±0.015	0.010±0.015	0.855±1.282	-0.256±1.282	0.855±1.282
1803+784	B	0.680	C1	3	4	4.32	51140.5000	-0.695±0.109	0.049±0.109	-0.349±0.077	-0.004±0.077	0.348±0.077	-0.029±0.110	0.349±0.077	13.528±2.993	-1.127±4.276	13.567±2.993
1803+784	B	0.680	C2	1	3	3.25	51140.5000	-1.720±0.036	-0.207±0.036	-0.204±0.019	-0.036±0.019	0.207±0.019	-0.011±0.016	0.207±0.019	8.047±0.739	-0.428±0.622	8.047±0.739
1803+784	B	0.680	C3	3	3	4.32	51140.5000	-3.215±0.102	-0.067±0.102	-0.084±0.060	0.019±0.060	0.083±0.060	0.021±0.060	0.086±0.060	3.227±2.332	0.816±2.332	3.343±2.332
1803+784	B	0.680	C4	3	4	4.32	51140.5000	-6.828±0.451	-0.807±0.451	-0.014±0.259	-0.029±0.259	0.017±0.259	-0.027±0.259	0.032±0.259	0.661±10.068	-1.050±10.068	1.244±10.068
1803+784	B	0.680	C5	3	4	4.32	51140.5000	-27.237±0.238	-6.804±0.238	-0.215±0.150	0.006±0.150	0.208±0.150	0.058±0.150	0.215±0.150	8.086±5.831	2.255±5.831	8.358±5.831
1807+698	B	0.051	C1	3	3	4.33	51236.6667	-0.985±0.215	-0.115±0.215	-0.035±0.104	0.009±0.104	0.033±0.104	0.013±0.100	0.036±0.104	0.111±0.351	0.044±0.337	0.121±0.351
1807+698	B	0.															

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)
Source	Cl	z	Id	q	n.ep.	span [year]	ref.ep.	$X_0 \pm \Delta X_0$ [mas]	$Y_0 \pm \Delta Y_0$ [mas]	$\mu^x \pm \Delta \mu^x$ [mas/year]	$\mu^y \pm \Delta \mu^y$ [mas/year]	$\mu^r \pm \Delta \mu^r$ [mas/year]	$\mu^\theta \pm \Delta \mu^\theta$ [mas/year]	$\mu^{\text{tot}} \pm \Delta \mu^{\text{tot}}$ [mas/year]	$\beta_{\text{app}}^r$ [c]	$\beta_{\text{app}}^\theta$ [c]	$\beta_{\text{app}}^{\text{tot}}$ [c]
1812+412	Q	1.564	C2	1	3	2.46	50374.3333	4.260±0.041	0.572±0.041	0.144±0.039	0.051±0.039	0.149±0.039	-0.031±0.038	0.153±0.039	10.717±2.805	-2.230±2.733	11.004±2.805
1812+412	Q	1.564	C3	2	3	2.46	50374.3333	9.676±0.147	0.295±0.147	0.097±0.145	-0.005±0.145	0.096±0.145	0.008±0.145	0.097±0.145	6.905±10.429	0.575±10.429	6.977±10.429
1812+412	Q	1.564	C4	2	3	2.46	50374.3333	12.872±0.279	1.464±0.279	-0.111±0.277	0.011±0.277	-0.109±0.277	-0.023±0.277	0.112±0.277	-7.840±19.923	-1.654±19.923	8.055±19.923
1818+356	Q	0.971?	C1	3	2	1.78	50769.6660	1.182±	-0.757±	-0.224±	-0.525±	0.094±	0.563±	0.571±	4.850±	29.051±	29.463±
1823+568	B	0.664	C1	1	3	4.33	51236.3333	-0.508±0.094	-1.367±0.094	-0.006±0.073	-0.118±0.073	0.112±0.073	-0.035±0.075	0.118±0.073	4.268±2.782	-1.334±2.858	4.497±2.782
1823+568	B	0.664	C2	2	3	4.33	51236.3333	-1.197±0.088	-2.587±0.088	-0.117±0.040	-0.205±0.040	0.235±0.040	0.020±0.038	0.236±0.040	8.956±1.524	0.762±1.448	8.994±1.524
1823+568	B	0.664	C3	3	3	4.33	51236.3333	-2.279±0.175	-6.444±0.175	-0.033±0.086	-0.094±0.086	0.100±0.086	-0.001±0.084	0.100±0.086	3.811±3.278	-0.038±3.201	3.811±3.278
1826+796	G	0.224	C1	2	3	3.90	49603.3333	1.607±0.043	0.506±0.043	0.014±0.026	0.264±0.026	0.092±0.027	-0.247±0.025	0.264±0.026	1.314±0.386	-3.527±0.357	3.770±0.371
1826+796	G	0.224	C2	1	3	3.90	49603.3333	3.134±0.013	2.784±0.013	-0.032±0.007	-0.016±0.007	-0.034±0.007	-0.010±0.007	0.036±0.007	-0.485±0.100	-0.143±0.100	0.514±0.100
1826+796	G	0.224	C3	1	3	3.90	49603.3333	13.920±0.122	7.207±0.122	-0.039±0.073	0.029±0.073	-0.021±0.073	-0.043±0.073	0.048±0.073	-0.300±1.042	-0.614±1.042	0.685±1.042
1828+399	U		C1	1	3	4.92	49985.0000	-1.039±0.013	0.658±0.013	-0.017±0.008	0.022±0.008	0.026±0.008	0.010±0.007	0.028±0.008			
1834+612	Q	2.274	C1	2	3	3.90	49603.3333	-0.178±0.019	-0.742±0.019	-0.011±0.010	-0.015±0.010	0.017±0.010	0.017±0.010	0.019±0.010	1.520±0.894	0.626±0.894	1.699±0.894
1834+612	Q	2.274	C2	2	3	3.90	49603.3333	-0.215±0.120	-3.167±0.120	-0.068±0.076	-0.113±0.076	0.117±0.076	0.060±0.078	0.132±0.076	10.459±6.794	5.364±6.973	11.800±6.794
1842+681	Q	0.472	C1	3	4	7.92	49481.2500	0.526±0.061	-0.359±0.061	0.028±0.020	-0.039±0.020	0.045±0.020	0.016±0.017	0.048±0.020	1.278±0.568	0.454±0.483	1.363±0.568
1842+681	Q	0.472	C2	3	3	5.48	49481.2500	1.247±0.010	-0.968±0.010	0.009±0.004	0.056±0.004	-0.027±0.004	-0.050±0.004	0.057±0.004	-0.767±0.114	-1.420±0.114	1.619±0.114
1842+681	Q	0.472	C3	3	4	7.92	49481.2500	1.952±0.148	-1.898±0.148	0.027±0.043	0.089±0.043	-0.043±0.043	-0.083±0.041	0.093±0.043	-1.221±1.221	-2.357±1.164	2.641±1.221
1842+681	Q	0.472	C4	3	4	7.92	49481.2500	2.935±0.086	-3.177±0.086	-0.016±0.025	-0.055±0.025	0.029±0.025	0.049±0.025	0.057±0.025	0.824±0.710	1.392±0.710	1.619±0.710
1842+681	Q	0.472	C5	3	2	2.44	49481.2500	5.199±	-10.268±	-0.090±	-0.093±	0.043±	0.122±	0.129±	1.221±	3.465±	3.664±
1843+356	G	0.764	C1	1	3	4.91	49328.0000	0.686±0.034	0.612±0.034	-0.012±0.015	-0.010±0.015	-0.016±0.015	-0.001±0.015	0.016±0.015	-0.684±0.641	-0.043±0.641	0.684±0.641
1843+356	G	0.764	C2	2	3	4.91	49328.0000	3.496±0.080	3.908±0.080	0.025±0.046	0.072±0.046	0.070±0.046	-0.029±0.046	0.076±0.046	2.994±1.967	-1.240±1.967	3.250±1.967
1843+356	G	0.764	C3	1	3	4.91	49328.0000	4.858±0.049	5.221±0.049	0.000±0.025	0.000±0.025	0.000±0.025	0.000±0.025	0.000±0.025	0.000±1.069	0.000±1.069	0.000±1.069
1843+356	G	0.764	C4	1	3	4.91	49328.0000	5.921±0.048	5.941±0.048	-0.016±0.028	-0.072±0.028	-0.062±0.028	0.039±0.028	0.074±0.028	-2.652±1.197	1.668±1.197	3.165±1.197
1843+356	G	0.764	C5	3	2	4.91	49328.0000	7.030±0.372	7.337±0.372	-0.035±0.145	0.032±0.145	-0.001±0.145	-0.047±0.145	0.047±0.145	-0.043±6.201	-2.010±6.201	2.010±6.201
1849+670	Q	0.657	C1	1	3	4.20	49567.6667	-0.988±0.031	0.686±0.031	-0.171±0.015	0.152±0.015	-0.207±0.015	-0.028±0.010	0.229±0.015	8.575±0.567	1.058±0.378	8.650±0.567
1849+670	Q	0.657	C2	1	2	2.28	49567.6667	-2.737±	2.030±	-0.156±	0.088±	0.178±	-0.022±	0.179±	6.724±	-0.831±	6.762±
1849+670	Q	0.657	C3	3	2	2.28	49567.6667	-4.602±	3.738±	0.057±	0.010±	-0.038±	0.044±	0.058±	-1.435±	1.662±	2.191±
1850+402	Q	2.120	C1	2	3	4.92	49988.0000	-1.028±0.105	-0.495±0.105	-0.017±0.053	-0.035±0.053	0.030±0.053	-0.024±0.052	0.039±0.053	2.582±4.562	-2.066±4.476	3.357±4.562
1850+402	Q	2.120	C2	1	3	4.92	49988.0000	-1.930±0.022	-0.989±0.022	-0.040±0.012	-0.032±0.012	0.050±0.012	-0.010±0.012	0.051±0.012	4.304±1.033	-0.861±1.033	4.390±1.033
1856+737	Q	0.461	C1	1	3	3.90	49603.3333	0.220±0.048	0.497±0.048	0.005±0.026	0.025±0.026	0.025±0.026	-0.006±0.025	0.025±0.026	0.695±0.723	-0.167±0.695	0.695±0.723
1856+737	Q	0.461	C2	2	3	3.90	49603.3333	0.974±0.038	1.844±0.038	0.076±0.024	0.140±0.024	0.159±0.024	0.002±0.024	0.159±0.024	4.422±0.668	0.056±0.668	4.422±0.668
1856+737	Q	0.461	C3	1	3	3.90	49603.3333	2.111±0.016	2.867±0.016	0.136±0.010	0.226±0.010	0.263±0.010	-0.024±0.009	0.264±0.010	7.315±0.278	-0.668±0.250	7.343±0.278
1856+737	Q	0.461	C4	1	3	3.90	49603.3333	3.605±0.043	6.313±0.043	0.089±0.024	0.298±0.024	0.303±0.024	-0.071±0.024	0.311±0.024	8.427±0.668	-1.975±0.668	8.650±0.668
1908+484	Q	0.513?	C1	1	3	4.94	49954.3330	0.755±0.026	0.646±0.026	0.109±0.013	0.078±0.013	0.134±0.013	0.012±0.011	0.134±0.013	4.095±0.397	0.367±0.336	4.095±0.397
1910+375	Q	1.104	C1	1	3	4.92	49988.0000	0.379±0.014	-0.759±0.014	0.018±0.007	0.019±0.007	-0.009±0.007	-0.025±0.007	0.026±0.007	-0.511±0.397	-1.419±0.397	1.476±0.397
1910+375	Q	1.104	C2	2	3	4.92	49988.0000	0.538±0.159	-1.860±0.159	0.009±0.116	-0.071±0.116	0.070±0.116	0.011±0.116	0.071±0.116	3.973±6.583	0.624±6.583	4.029±6.583
1910+375	Q	1.104	C3	1	3	4.92	49988.0000	0.850±0.087	-8.250±0.087	0.047±0.045	-0.016±0.045	0.020±0.045	-0.045±0.045	0.050±0.045	1.135±2.554	-2.554±2.554	2.838±2.554
1924+507	Q	1.098	C1	1	3	4.92	49988.0000	0.093±0.025	1.022±0.025	0.039±0.011	0.082±0.011	0.085±0.011	0.032±0.009	0.091±0.011	4.805±0.622	1.809±0.509	5.144±0.622
1924+507	Q	1.098	C2	1	3	4.92	49988.0000	-0.013±0.048	2.230±0.048	0.010±0.028	0.080±0.028	0.080±0.028	0.011±0.028	0.080±0.028	4.522±1.583	0.622±1.583	4.522±1.583
1924+507	Q	1.098	C3	3	3	4.92	49988.0000	-0.028±0.038	3.351±0.038	-0.002±0.018	0.166±0.018	0.166±0.018	-0.001±0.016	0.166±0.018	9.383±1.017	-0.057±0.904	9.383±1.017
1926+611	B	≥0.200	C1	1	3	6.44	49016.0000	0.716±0.035	-0.347±0.035	-0.020±0.012	0.004±0.012	-0.020±0.012	0.005±0.012	0.020±0.012			
1926+611	B	≥0.200	C2	3	3	6.44	49016.0000	1.266±0.120	-1.383±0.120	0.049±0.046	-0.089±0.046	0.099±0.046	0.024±0.042	0.101±0.046			
1928+738	Q	0.302	C1	2	3	4.33	51236.6667	0.526±0.096	-1.101±0.096	0.128±0.045	0.134±0.045	-0.066±0.047	-0.173±0.048	0.185±0.045	-1.248±0.889	-3.272±0.908	3.499±0.851
1928+738	Q	0.302	C2	2	3	4.33	51236.6667	0.593±0.105	-2.920±0.105	-0.052±0.090	0.037±0.090	-0.047±0.090	0.044±0.089	0.064±0.090	-0.889±1.702	0.832±1.683	1.211±1.702
1928+738	Q	0.302	C3	2	3	4.33	51236.6667	1.381±0.454	-4.706±0.454	-0.429±0.309	-0.078±0.309	-0.046±0.312	0.434±0.306	0.436±0.309	-0.870±5.902	8.209±5.788	8.247±5.845
1928+738	Q	0.302	C4	2	3	4.33	51236.6667	2.783±0.391	-10.113±0.391	0.182±0.216	-0.130±0.216	0.173±0.216	-0.141±0.215	0.223±0.216	3.272±4.086	-2.667±4.067	4.218±4.086
1928+738	Q	0.302	C5	2	3	4.33	51236.6667	1.846±0.465	-15.030±0.465	-0.178±0.254	-0.072±0.254	0.050±0.254	0.186±0.254	0.192±0.254	0.946±4.805	3.518±4.805	3.632±4.805
1928+738	Q	0.302	C6	2	3	4.33	51236.6667	1.313±0.367	-20.630±0.367	-0.016±0.175	-0.227±0.175	0.225±0.175	0.031±0.173	0.227±0.175	4.256±3.310	0.586±3.272	4.294±3.310
1936+714	Q	1.864	C1	2	3	3.90	49603.3333	-0.141±0.036	-0.613±0.036	0.002±0.019	-0.096±0.019	0.093±0.019	-0.023±0.016	0.096±0.019	7.443±1.521	-1.841±1.281	7.683±1.521
1936+714	Q	1.864	C2	3	3	3.90	49603.3333	-0.134±0.043	-1.520±0.043	0.039±0.025	-0.043±0.025	0.040±0.025	-0.042±0.024	0.058±0.025	3.201±2.001	-3.361±1.921	4.642±2.001
1943+546	G	0.263	C1	3	2	2.44	49736.0000	-10.257±	-0.679±	0.081±	0.075±	-0.086±	0.070±	0.110±	-1.429±	1.163±	1.828±
1943+546	G	0.263	C2	3	3	3.40	49736.0000	-11.225±0.095	-1.605±0.095	-0.129±0.056	-0.025±0.056	0.132±0.056	-0.006±0.056	0.132±0.056	2.194±0.931	-0.100±0.931	2.194±0.931
1943+546	G	0.263	C3	1	4	6.39	49736.0000	-12.874±0.067	-1.356								

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)
Source	Cl	z	Id	q	n.ep.	span [year]	ref.ep.	$X_0 \pm \Delta X_0$ [mas]	$Y_0 \pm \Delta Y_0$ [mas]	$\mu^x \pm \Delta \mu^x$ [mas/year]	$\mu^y \pm \Delta \mu^y$ [mas/year]	$\mu^r \pm \Delta \mu^r$ [mas/year]	$\mu^\theta \pm \Delta \mu^\theta$ [mas/year]	$\mu^{\text{tot}} \pm \Delta \mu^{\text{tot}}$ [mas/year]	$\beta_{\text{app}}^r$ [c]	$\beta_{\text{app}}^\theta$ [c]	$\beta_{\text{app}}^{\text{tot}}$ [c]
1943+546	G	0.263	CC3	1	4	6.39	49736.0000	25.732±0.038	0.919±0.038	0.013±0.017	0.011±0.017	0.014±0.017	-0.010±0.017	0.017±0.017	0.233±0.283	-0.166±0.283	0.283±0.283
1946+708	G	0.101	C0	3	4	2.94	49828.5000	1.578±0.006	1.530±0.006	0.136±0.004	0.192±0.004	0.231±0.004	-0.043±0.004	0.235±0.004	1.527±0.026	-0.284±0.026	1.553±0.026
1946+708	G	0.101	C1	2	4	5.38	49828.5000	2.031±0.114	2.037±0.114	0.098±0.046	0.145±0.046	0.172±0.046	-0.033±0.045	0.175±0.046	1.137±0.304	-0.218±0.297	1.157±0.304
1946+708	G	0.101	C2	3	4	5.38	49828.5000	5.762±0.152	7.263±0.152	0.039±0.067	-0.025±0.067	0.005±0.067	0.046±0.067	0.046±0.067	0.033±0.443	0.304±0.443	0.304±0.443
1946+708	G	0.101	C3	2	4	5.38	49828.5000	6.296±0.157	8.733±0.157	0.036±0.088	0.123±0.088	0.121±0.088	-0.043±0.088	0.128±0.088	0.800±0.582	-0.284±0.582	0.846±0.582
1946+708	G	0.101	C4	3	4	5.38	49828.5000	6.294±0.101	14.500±0.101	-0.022±0.043	-0.045±0.043	-0.050±0.043	-0.003±0.044	0.050±0.043	-0.330±0.284	-0.020±0.291	0.330±0.284
1946+708	G	0.101	C5	2	4	5.38	49828.5000	7.112±0.067	15.203±0.067	-0.034±0.034	0.026±0.034	0.009±0.034	-0.042±0.034	0.043±0.034	0.059±0.225	-0.278±0.225	0.284±0.225
1946+708	G	0.101	C6	3	4	5.38	49828.5000	8.164±0.154	15.126±0.154	-0.106±0.081	0.054±0.081	-0.003±0.081	-0.119±0.081	0.119±0.081	-0.020±0.535	-0.787±0.535	0.787±0.535
1946+708	G	0.101	C7	3	4	5.38	49828.5000	11.633±0.281	15.499±0.281	-0.198±0.219	0.061±0.219	-0.071±0.219	-0.195±0.219	0.207±0.219	-0.469±1.448	-1.289±1.448	1.368±1.448
1946+708	G	0.101	C8	3	4	5.38	49828.5000	16.219±0.187	14.774±0.187	-0.196±0.082	0.238±0.082	0.015±0.082	-0.307±0.082	0.308±0.082	0.099±0.542	-2.029±0.542	2.036±0.542
1946+708	G	0.101	CC1	2	4	5.38	49828.5000	-2.768±0.112	-4.963±0.112	-0.006±0.051	0.006±0.051	-0.003±0.051	0.008±0.051	0.009±0.051	-0.020±0.337	0.053±0.337	0.059±0.337
1946+708	G	0.101	CC2	2	3	5.38	49828.5000	-5.794±0.182	-13.248±0.182	0.014±0.081	-0.138±0.081	0.121±0.081	-0.068±0.081	0.139±0.081	0.800±0.535	-0.449±0.535	0.919±0.535
1950+573	G	0.652	C1	3	3	3.92	49605.0000	0.518±0.061	0.456±0.061	0.192±0.058	0.055±0.058	0.180±0.059	0.085±0.067	0.199±0.058	6.756±2.215	3.190±2.515	7.469±2.177
1950+573	G	0.652	C2	3	3	3.92	49605.0000	4.824±0.296	0.778±0.296	0.074±0.186	0.003±0.186	0.074±0.186	0.009±0.188	0.074±0.186	2.778±6.981	0.338±7.056	2.778±6.981
1950+573	G	0.652	C3	3	3	3.92	49605.0000	13.297±0.179	2.861±0.179	0.177±0.100	0.015±0.100	0.176±0.100	0.023±0.098	0.177±0.100	6.606±3.753	0.863±3.678	6.644±3.753
1954+513	Q	1.223	C2	1	3	4.31	51238.0000	-0.895±0.089	0.694±0.089	-0.165±0.036	0.136±0.036	0.213±0.036	0.006±0.021	0.213±0.036	13.003±2.198	0.366±1.282	13.003±2.198
1954+513	Q	1.223	C3	1	3	4.31	51238.0000	-2.038±0.077	1.570±0.077	-0.222±0.034	0.180±0.034	0.285±0.034	0.007±0.028	0.285±0.034	17.398±2.076	0.427±1.709	17.398±2.076
1954+513	Q	1.223	C4	2	3	4.31	51238.0000	-6.452±0.109	3.451±0.109	-0.247±0.058	0.051±0.058	0.242±0.058	-0.071±0.057	0.252±0.058	14.773±3.541	-4.334±3.480	15.383±3.541
1954+513	Q	1.223	C5	2	3	4.31	51238.0000	-12.138±0.104	4.980±0.104	-0.219±0.055	0.120±0.055	0.248±0.055	0.027±0.055	0.250±0.055	15.139±3.357	1.648±3.357	15.261±3.357
2007+659	Q	1.325	C1	1	3	4.22	49568.3333	-0.246±0.012	-0.422±0.012	-0.002±0.006	0.010±0.006	-0.008±0.006	0.007±0.006	0.010±0.006	-0.516±0.387	0.452±0.387	0.645±0.387
2007+659	Q	1.325	C2	2	3	4.22	49568.3333	-0.965±0.021	-1.182±0.021	-0.042±0.013	-0.080±0.013	0.088±0.013	-0.018±0.013	0.090±0.013	5.677±0.839	-1.161±0.839	5.806±0.839
2007+659	Q	1.325	C3	2	3	4.22	49568.3333	-1.655±0.087	-3.015±0.087	-0.088±0.047	-0.188±0.047	0.207±0.047	-0.014±0.048	0.208±0.047	13.353±3.032	-0.903±3.096	13.418±3.032
2007+659	Q	1.325	C4	3	3	4.22	49568.3333	-2.722±0.075	-5.215±0.075	-0.019±0.038	-0.010±0.038	0.018±0.038	0.012±0.038	0.021±0.038	1.161±2.451	0.774±2.451	1.355±2.451
2007+777	B	0.342	C1	2	3	4.22	49568.3333	-0.479±0.044	-0.036±0.044	-0.008±0.031	0.042±0.031	0.005±0.031	0.043±0.031	0.043±0.031	0.106±0.658	0.913±0.658	0.913±0.658
2007+777	B	0.342	C2	2	3	4.22	49568.3333	-1.489±0.050	-0.194±0.050	-0.081±0.040	0.044±0.040	0.075±0.040	0.054±0.041	0.092±0.040	1.592±0.849	1.146±0.870	1.953±0.849
2010+723	B	≥0.200	C1	2	2	1.75	49173.0000	-0.469±	0.688±	-0.053±	0.053±	0.073±	-0.014±	0.075±			
2010+723	B	≥0.200	C2	2	3	4.22	49173.0000	-0.892±0.054	1.044±0.054	-0.002±0.030	0.037±0.030	0.030±0.030	0.023±0.029	0.037±0.030			
2010+723	B	≥0.200	C3	3	3	4.22	49173.0000	-1.347±0.155	0.684±0.155	-0.001±0.088	0.103±0.088	0.047±0.088	0.091±0.091	0.103±0.088			
2010+723	B	≥0.200	C4	3	3	4.22	49173.0000	-3.995±0.324	-3.232±0.324	-0.105±0.181	-0.120±0.181	0.157±0.181	-0.027±0.175	0.159±0.181			
2017+745	Q	2.187	C1	1	4	3.92	49606.3333	0.668±0.012	0.078±0.012	0.008±0.007	-0.007±0.007	0.007±0.007	0.008±0.007	0.011±0.007	0.613±0.613	0.700±0.613	0.963±0.613
2017+745	Q	2.187	C2	1	4	3.92	49606.3333	1.503±0.035	0.162±0.035	-0.017±0.019	0.047±0.019	-0.012±0.019	-0.048±0.019	0.050±0.019	-1.051±1.664	-4.203±1.664	4.378±1.664
2017+745	Q	2.187	C3	1	4	3.92	49606.3333	3.299±0.056	0.283±0.056	0.085±0.036	0.041±0.036	0.088±0.036	-0.034±0.036	0.094±0.036	7.705±3.152	-2.977±3.152	8.230±3.152
2017+745	Q	2.187	C4	1	4	3.92	49606.3333	5.467±0.055	0.275±0.055	0.067±0.033	0.011±0.033	0.067±0.033	-0.007±0.033	0.068±0.033	5.866±2.889	-0.613±2.889	5.954±2.889
2021+614	Q	0.227	C1	2	3	4.31	51238.0000	1.532±0.017	2.279±0.017	-0.015±0.009	-0.039±0.009	-0.040±0.009	0.009±0.009	0.041±0.009	-0.578±0.130	0.130±0.130	0.593±0.130
2021+614	Q	0.227	C2	1	3	4.31	51238.0000	0.787±0.003	0.751±0.003	-0.018±0.002	-0.043±0.002	-0.043±0.002	0.019±0.002	0.047±0.002	-0.622±0.029	0.275±0.029	0.680±0.029
2021+614	Q	0.227	C3	3	3	4.31	51238.0000	2.783±0.146	0.678±0.146	0.130±0.067	-0.042±0.067	0.117±0.067	0.071±0.064	0.137±0.067	1.692±0.969	1.027±0.925	1.981±0.969
2021+614	Q	0.227	CC1	1	3	4.31	51238.0000	3.889±0.029	5.809±0.029	0.016±0.016	0.014±0.016	0.021±0.016	0.006±0.016	0.022±0.016	0.304±0.231	0.087±0.231	0.318±0.231
2021+614	Q	0.227	CC2	1	3	4.31	51238.0000	6.523±0.009	7.031±0.009	-0.011±0.005	-0.005±0.005	-0.011±0.005	-0.005±0.005	0.012±0.005	-0.159±0.072	-0.072±0.072	0.174±0.072
2023+760	B	≥0.200	C1	2	3	3.91	49606.0000	-0.300±0.078	-0.740±0.078	-0.010±0.043	0.036±0.043	-0.030±0.043	0.023±0.043	0.038±0.043			
2023+760	B	≥0.200	C2	1	3	3.91	49606.0000	-0.589±0.039	-2.083±0.039	-0.021±0.025	-0.065±0.025	0.068±0.025	0.002±0.025	0.068±0.025			
2023+760	B	≥0.200	C3	2	3	3.91	49606.0000	-1.137±0.099	-2.690±0.099	-0.004±0.054	-0.010±0.054	0.011±0.054	-0.001±0.054	0.011±0.054			
2023+760	B	≥0.200	C4	3	2	1.94	49606.0000	-1.755±	-3.262±	-0.049±	0.072±	-0.041±	0.077±	0.087±			
2023+760	B	≥0.200	C5	3	3	3.91	49606.0000	-5.351±0.130	-5.489±0.130	-0.034±0.069	-0.098±0.069	0.094±0.069	-0.044±0.068	0.104±0.069			
2054+611	Q	0.864	C1	2	4	5.37	49827.0000	0.655±0.110	-1.121±0.110	0.092±0.055	-0.188±0.055	0.209±0.055	0.015±0.058	0.210±0.055	9.857±2.594	0.707±2.736	9.904±2.594
2054+611	Q	0.864	C2	2	4	5.37	49827.0000	1.118±0.010	-3.756±0.010	-0.034±0.005	-0.019±0.005	0.008±0.005	0.038±0.005	0.039±0.005	0.377±0.236	1.792±0.236	1.839±0.236
2054+611	Q	0.864	C3	2	3	3.40	49827.0000	1.467±0.124	-4.882±0.124	0.040±0.059	-0.112±0.059	0.119±0.059	-0.006±0.061	0.119±0.059	5.613±2.783	-0.283±2.877	5.613±2.783
2054+611	Q	0.864	C4	2	4	5.37	49827.0000	1.279±0.065	-6.927±0.065	-0.073±0.032	-0.053±0.032	0.039±0.032	0.081±0.032	0.090±0.032	1.839±1.509	3.820±1.509	4.245±1.509
2116+818	G, Sy I	0.084	C1	1	3	2.46	50374.3333	-0.608±0.029	1.343±0.029	-0.173±0.027	0.308±0.027	0.352±0.027	-0.030±0.023	0.353±0.027	1.942±0.149	-0.165±0.127	1.947±0.149
2116+818	G	0.084	C2	2	3	2.46	50374.3333	-1.688±0.050	3.213±0.050	-0.240±0.053	0.411±0.053	0.476±0.053	-0.021±0.052	0.476±0.053	2.626±0.292	-0.116±0.287	2.626±0.292
2116+818	G	0.084	C3	2	3	2.46	50374.3333	-2.350±0.024	4.558±0.024	-0.162±0.023	0.398±0.023	0.428±0.023	0.038±0.022	0.429±0.023	2.361±0.127	0.210±0.121	2.366±0.127
2116+818	G	0.084	C4	1	3	2.46	50374.3333	-3.200±0.018	5.909±0.018	-0.123±0.018	0.309±0.018	0.330±0.018	0.039±0.018	0.333±0.018	1.820±0.099	0.215±0.099	1.837±0.099
2136+824	Q	2.357	C1	1	4	5.38	49827.0000	0.341±0.027	-0.525±0.027	0.043±0.014	-0.02						

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)
Source	Cl	z	Id	q	n.ep.	span [year]	ref.ep.	$X_0 \pm \Delta X_0$ [mas]	$Y_0 \pm \Delta Y_0$ [mas]	$\mu^x \pm \Delta \mu^x$ [mas/year]	$\mu^y \pm \Delta \mu^y$ [mas/year]	$\mu^r \pm \Delta \mu^r$ [mas/year]	$\mu^\circ \pm \Delta \mu^\circ$ [mas/year]	$\mu^{\text{tot}} \pm \Delta \mu^{\text{tot}}$ [mas/year]	$\beta_{\text{app}}^r$ [c]	$\beta_{\text{app}}^\circ$ [c]	$\beta_{\text{app}}^{\text{tot}}$ [c]
2138+389	U		C3	2	3	6.73	50206.7500	6.052±0.112	0.799±0.112	-0.007±0.050	-0.020±0.050	-0.009±0.050	0.019±0.050	0.021±0.050			
2138+389	U		CC1	1	4	6.73	50206.7500	-1.800±0.056	0.254±0.056	-0.018±0.026	0.011±0.026	0.020±0.026	0.008±0.026	0.021±0.026			
2138+389	U		CC2	3	3	4.25	50206.7500	-3.433±0.141	1.664±0.141	-0.070±0.062	-0.081±0.062	0.027±0.062	-0.104±0.062	0.107±0.062			
2200+420	B	0.069	C1	3	2	1.07	51141.5000	-0.371±	-0.771±	-0.135±	-0.645±	0.640±	-0.159±	0.659±	2.909±	-0.723±	2.995±
2200+420	B	0.069	C2	3	3	4.32	51141.5000	-0.386±0.079	-1.761±0.079	-0.091±0.050	-0.464±0.050	0.473±0.050	-0.010±0.033	0.473±0.050	2.150±0.227	-0.045±0.150	2.150±0.227
2200+420	B	0.069	C3	3	3	4.32	51141.5000	-0.939±0.148	-3.616±0.148	-0.251±0.067	-0.646±0.067	0.688±0.067	0.080±0.044	0.693±0.067	3.127±0.305	0.364±0.200	3.150±0.305
2200+420	B	0.069	C4	3	4	4.32	51141.5000	-0.237±0.223	-4.823±0.223	-0.068±0.148	-0.507±0.148	0.510±0.148	0.043±0.146	0.512±0.148	2.318±0.673	0.195±0.664	2.327±0.673
2214+350	Q	0.510	C1	1	3	4.66	49479.2500	0.205±0.017	-0.717±0.017	-0.004±0.008	0.002±0.008	-0.003±0.008	0.004±0.008	0.005±0.008	-0.091±0.243	0.122±0.243	0.152±0.243
2229+695	B	1.413	C1	2	3	6.46	49141.6667	0.857±0.089	0.286±0.089	0.046±0.030	0.027±0.030	0.052±0.030	-0.011±0.025	0.053±0.030	3.502±2.020	-0.741±1.684	3.569±2.020
2235+731	Q	1.345	C1	1	3	2.92	49485.3333	0.511±0.028	0.451±0.028	0.041±0.030	0.033±0.030	0.052±0.030	0.002±0.030	0.052±0.030	3.389±1.955	0.130±1.955	3.389±1.955
2235+731	Q	1.345	C2	2	3	2.92	49485.3333	1.573±0.041	2.097±0.041	0.023±0.032	0.099±0.032	0.094±0.032	-0.041±0.032	0.102±0.032	6.126±2.085	-2.672±2.085	6.647±2.085
2235+731	Q	1.345	C3	3	4	2.92	49485.3333	1.951±0.278	3.199±0.278	0.110±0.285	0.100±0.285	0.143±0.285	0.042±0.283	0.149±0.285	9.319±18.572	2.737±18.442	9.710±18.572
2238+410	B	0.726	C1	2	2	2.45	50138.6667	-0.362±	-0.351±	-0.046±	-0.017±	0.045±	0.020±	0.049±	1.846±	0.821±	2.010±
2238+410	B	0.726	C2	3	2	2.45	50138.6667	-0.069±	-1.939±	-0.111±	0.007±	-0.003±	0.111±	0.111±	-0.123±	4.554±	4.554±
2238+410	B	0.726	C3	3	3	3.40	50138.6667	2.737±0.111	-3.265±0.111	0.170±0.080	-0.010±0.080	0.117±0.080	-0.124±0.081	0.170±0.080	4.800±3.282	-5.088±3.323	6.975±3.282
2253+417	Q	1.476	C1	1	3	6.44	49140.0000	-0.004±0.029	1.158±0.029	-0.041±0.011	0.099±0.011	0.099±0.011	-0.041±0.011	0.107±0.011	6.861±0.762	-2.841±0.762	7.415±0.762
2253+417	Q	1.476	C2	2	3	6.44	49140.0000	-0.353±0.073	2.089±0.073	0.000±0.030	0.050±0.030	0.049±0.030	0.008±0.029	0.050±0.030	3.396±2.079	0.554±2.010	3.465±2.079
2253+417	Q	1.476	C3	3	3	6.44	49140.0000	1.890±0.145	4.334±0.145	0.003±0.048	0.025±0.048	0.024±0.048	-0.007±0.048	0.025±0.048	1.663±3.326	-0.485±3.326	1.733±3.326
2253+417	Q	1.476	C4	2	3	6.44	49140.0000	4.207±0.064	6.389±0.064	0.015±0.023	0.045±0.023	0.046±0.023	-0.012±0.023	0.048±0.023	3.188±1.594	-0.832±1.594	3.326±1.594
2255+416	Q	2.150	C1	1	3	5.47	49020.6667	0.263±0.069	-1.040±0.069	0.020±0.036	0.006±0.036	-0.001±0.036	-0.020±0.036	0.020±0.036	-0.087±3.123	-1.735±3.123	1.735±3.123
2255+416	Q	2.150	C2	2	3	5.47	49020.6667	1.660±0.200	-4.822±0.200	-0.015±0.131	-0.325±0.131	0.302±0.131	0.120±0.129	0.325±0.131	26.197±11.364	10.410±11.190	28.193±11.364
2255+416	Q	2.150	C3	2	3	5.47	49020.6667	1.098±0.072	-7.581±0.072	0.013±0.027	0.014±0.027	-0.012±0.027	-0.015±0.027	0.019±0.027	-1.041±2.342	-1.301±2.342	1.648±2.342
2255+416	Q	2.150	C4	2	3	5.47	49020.6667	2.787±0.154	-9.232±0.154	-0.008±0.079	0.023±0.079	-0.024±0.079	0.000±0.079	0.024±0.079	-2.082±6.853	0.000±6.853	2.082±6.853
2255+416	Q	2.150	C5	3	3	5.47	49020.6667	2.576±0.303	-17.200±0.303	0.046±0.131	0.143±0.131	-0.134±0.131	-0.067±0.132	0.150±0.131	-11.624±11.364	-5.812±11.451	13.012±11.364
2255+416	Q	2.150	C6	3	3	5.47	49020.6667	2.106±0.410	-21.638±0.410	0.003±0.231	0.306±0.231	-0.304±0.231	-0.033±0.232	0.306±0.231	-26.371±20.038	-2.863±20.125	26.544±20.038
2255+416	Q	2.150	C7	3	3	5.47	49020.6667	-28.642±0.096	-30.748±0.096	-0.186±0.042	-0.015±0.042	0.138±0.042	0.126±0.042	0.187±0.042	11.971±3.643	10.930±3.643	16.222±3.643
2259+371	Q	2.179	C1	3	3	2.93	49826.7500	-0.242±0.191	1.237±0.191	-0.024±0.110	0.157±0.110	0.159±0.110	0.066±0.095	0.159±0.110	13.893±9.612	0.524±8.301	13.893±9.612
2259+371	Q	2.179	C2	3	4	5.38	49826.7500	-0.738±0.062	2.773±0.062	0.025±0.027	0.130±0.027	0.119±0.027	0.057±0.028	0.132±0.027	10.398±2.359	4.981±2.447	11.534±2.359
2259+371	Q	2.179	C3	3	4	5.38	49826.7500	0.692±0.055	2.619±0.055	0.125±0.027	0.042±0.027	0.073±0.027	0.110±0.027	0.132±0.027	6.379±2.359	9.612±2.359	11.534±2.359
2259+371	Q	2.179	C4	3	4	5.38	49826.7500	0.313±0.038	4.429±0.038	0.037±0.020	0.064±0.020	0.067±0.020	0.033±0.019	0.074±0.020	5.854±1.748	2.884±1.660	6.466±1.748
2309+454	Q	1.447	C1	2	3	4.94	49951.3333	1.732±0.102	-0.681±0.102	0.035±0.057	-0.071±0.057	0.058±0.057	0.053±0.057	0.079±0.057	3.968±3.899	3.626±3.899	5.404±3.899
2310+385	Q	2.181	C1	1	3	4.66	49985.6667	-3.846±0.103	-2.272±0.103	-0.051±0.054	0.000±0.054	0.044±0.054	0.026±0.053	0.051±0.054	3.847±4.721	2.273±4.633	4.459±4.721
2310+385	Q	2.181	C2	2	3	4.66	49985.6667	-5.119±0.037	-3.580±0.037	-0.051±0.024	-0.015±0.024	0.050±0.024	0.017±0.024	0.053±0.024	4.371±2.098	1.486±2.098	4.633±2.098
2319+444	G	1.251	C1	1	3	4.66	49985.6667	-0.678±0.017	2.245±0.017	-0.041±0.009	0.117±0.009	0.124±0.009	-0.005±0.009	0.124±0.009	7.690±0.558	-0.310±0.558	7.690±0.558
2346+385	Q	1.032	C1	1	3	4.91	49986.3333	-0.565±0.008	0.853±0.008	-0.015±0.005	0.103±0.005	0.094±0.005	0.044±0.004	0.104±0.005	5.077±0.270	2.376±0.216	5.617±0.270
2346+385	Q	1.032	C2	2	3	4.91	49986.3333	-1.107±0.075	2.217±0.075	-0.083±0.036	0.242±0.036	0.253±0.036	0.034±0.030	0.256±0.036	13.665±1.944	1.836±1.620	13.827±1.944
2351+456	Q	1.986	C1	1	3	4.31	51238.0000	-4.234±0.015	0.636±0.015	-0.085±0.007	-0.074±0.007	0.073±0.007	-0.086±0.007	0.113±0.007	6.059±0.581	-7.138±0.581	9.380±0.581
2351+456	Q	1.986	C2	2	3	4.31	51238.0000	-4.727±0.100	2.484±0.100	-0.132±0.056	-0.043±0.056	0.097±0.056	-0.100±0.056	0.139±0.056	8.052±4.648	-8.301±4.648	11.538±4.648
2351+456	Q	1.986	C3	2	3	4.31	51238.0000	-6.251±0.115	1.516±0.115	-0.261±0.085	-0.115±0.085	0.227±0.085	-0.173±0.087	0.286±0.085	18.842±7.055	-14.360±7.222	23.740±7.055
2351+456	Q	1.986	C4	2	3	4.31	51238.0000	-8.574±0.210	0.722±0.210	-0.204±0.101	0.049±0.101	0.208±0.101	0.032±0.100	0.210±0.101	17.265±8.384	2.656±8.384	17.431±8.384
2352+495	G	0.237	C1	3	2	1.78	50771.0000	5.948±	-25.657±	-0.146±	-0.397±	0.353±	0.232±	0.423±	5.318±	3.495±	6.372±
2352+495	G	0.237	C2	1	3	4.23	50771.0000	6.477±0.067	-17.989±0.067	-0.044±0.039	0.153±0.039	-0.159±0.039	-0.011±0.038	0.159±0.039	-2.395±0.587	-0.166±0.572	2.395±0.587
2352+495	G	0.237	C3	1	3	4.23	50771.0000	6.233±0.037	-16.906±0.037	0.001±0.020	0.103±0.020	-0.096±0.020	-0.036±0.020	0.103±0.020	-1.446±0.301	-0.542±0.301	1.552±0.301
2352+495	G	0.237	C4	1	3	4.23	50771.0000	5.477±0.021	-15.017±0.021	-0.022±0.011	0.010±0.011	-0.017±0.011	0.017±0.011	0.024±0.011	-0.256±0.166	0.256±0.166	0.362±0.166
2352+495	G	0.237	C5	3	2	4.23	50771.0000	-7.880±	2.978±	0.053±	0.060±	-0.029±	0.075±	0.080±	-0.437±	1.130±	1.205±
2352+495	G	0.237	CC1	1	3	4.23	50771.0000	9.029±0.197	-37.958±0.197	0.135±0.111	0.022±0.111	0.010±0.111	-0.137±0.111	0.137±0.111	0.151±1.672	-2.064±1.672	2.064±1.672
2352+495	G	0.237	CC2	1	3	4.23	50771.0000	11.774±0.081	-39.515±0.081	0.066±0.047	-0.150±0.047	0.162±0.047	-0.021±0.047	0.164±0.047	2.440±0.708	-0.316±0.708	2.470±0.708
2352+495	G	0.237	CC3	1	3	4.23	50771.0000	14.855±0.023	-46.972±0.023	0.056±0.013	-0.015±0.013	0.032±0.013	-0.049±0.013	0.058±0.013	0.482±0.196	-0.738±0.196	0.874±0.196
2352+495	G	0.237	CC4	1	3	4.23	50771.0000	22.218±0.083	-43.869±0.083	0.178±0.042	-0.053±0.042	0.128±0.042	-0.135±0.042	0.185±0.042	1.928±0.633	-2.034±0.633	2.787±0.633
2353+816	B	1.344?	C1	2	2	1.94	49606.3330	-0.031±	0.444±	-0.069±	0.055±	0.060±	-0.065±	0.088±	3.908±	-4.234±	5.732±
2353+816	B	1.344?	C2	2	3	3.91	49606.3330	-0.454±0.049	1.053±0.049	-0.011±0.026	0.164±0.026	0.155±0.026	0.054±0.021	0.164±0.026	10.096±1.693	3.517±1.368	10.682±1.693
2356+385	Q	2.704	C1	1	3	2.45	50374.3333	0.351±0.010	-1.170±0.010	-0.023±0.010	-0.0						