

Clustering output, found in /home/pauline/Research/m83_clustering/results/broad_narrow/HAlpha_I/clustering/mag05_6
mag05_814_mag05_336-mag05_657_mag05_438-mag05_657

K-means results

Nclust	inertia	score	TotObj	N1	N2	N3	N4	N5	N6	N7	N8
3	19541.7848553	0.388553864458	28920	12570	12205	4145	0	0	0	0	0
4	14536.8329132	0.353943292894	28920	11585	7910	5718	3707	0	0	0	0
5	12191.8109178	0.324012712772	28920	8696	8603	5698	3541	2382	0	0	0
6	10577.4279042	0.329385330132	28920	8437	7448	5365	3820	2146	1704	0	0
7	9390.39005083	0.301692318309	28920	6938	6061	5443	4237	3666	1476	1099	0
8	8355.04915364	0.310213916973	28920	6029	5639	4330	4247	4008	2248	1400	1019

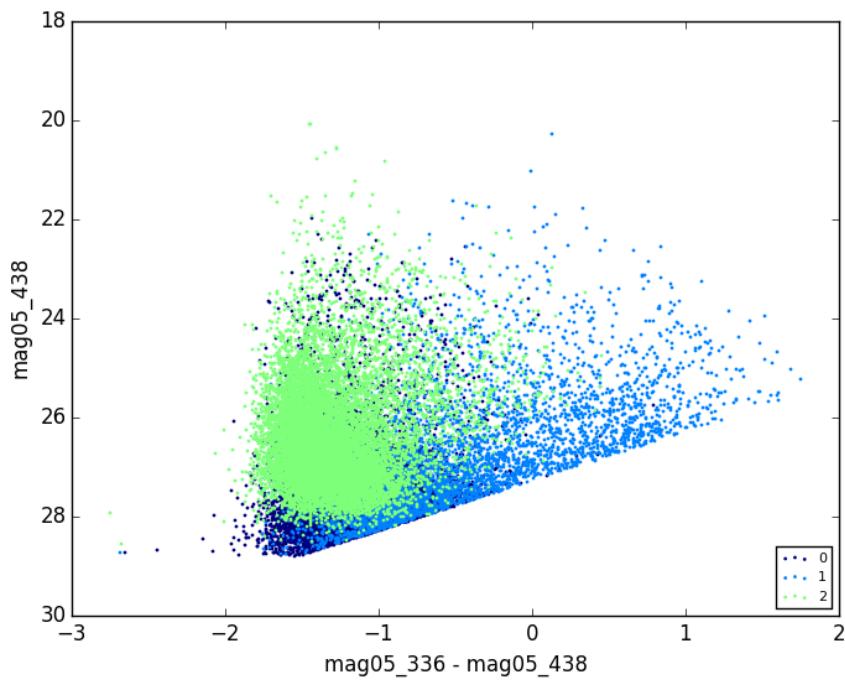


Figure 1: kmeans_CMD_3cl_mag05_336-mag05_438vsmag05_438.png

kmeans results, Ncl=3

Cluster	Nobj	tScore	cScore	rms	AvgDist	MaxDist	MinDist	Stdev	Cen1
1	12570	0.388553864458	0.381885782868	1.6870	0.9731	5.6976	0.0017	1.6447	-1.75168210024
2	4145	0.388553864458	0.217319959509	1.4846	1.2963	5.9784	0.0050	1.1585	-0.448026537998
3	12205	0.388553864458	0.453574947751	0.9194	0.9301	3.7735	0.0010	0.9147	-0.965380745596

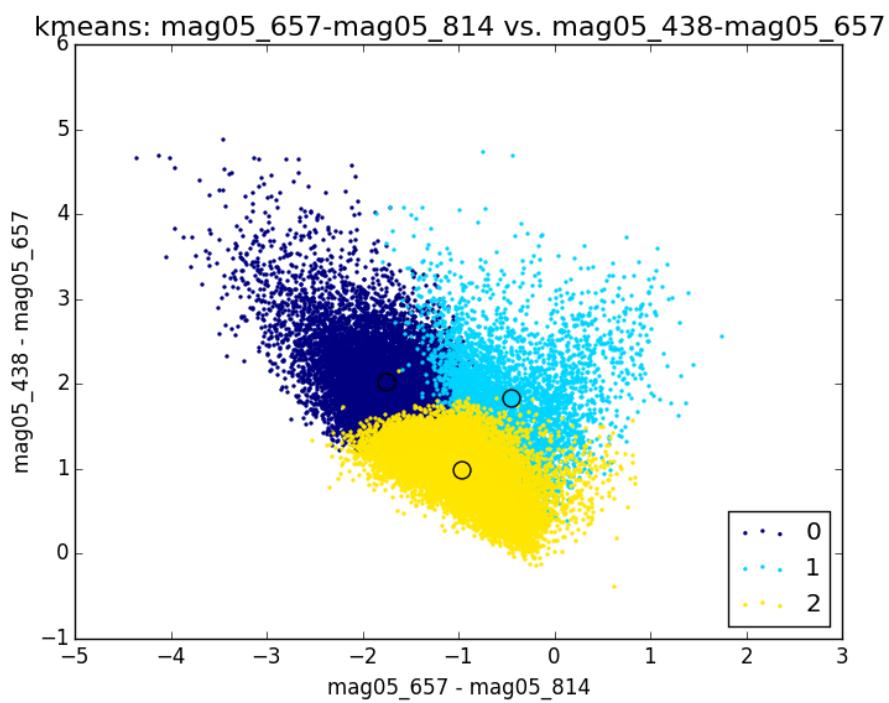


Figure 2: kmeans_3d_3cl_mag05_657-mag05_814vsmag05_438-mag05_657.png

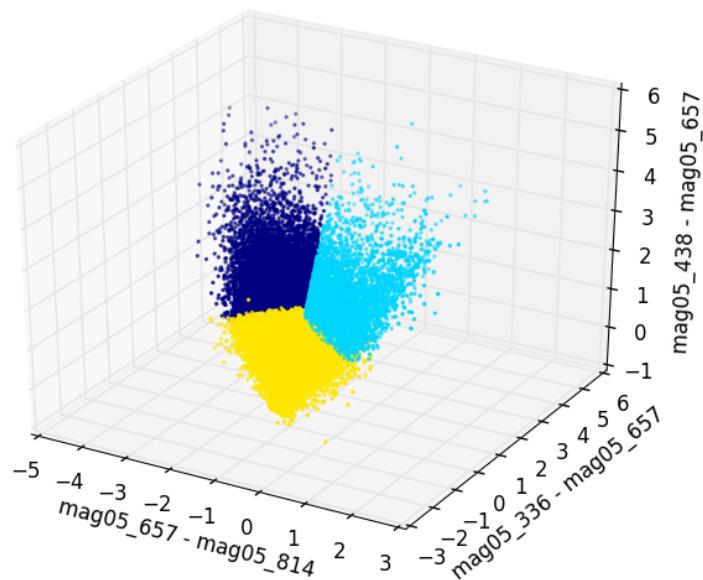


Figure 3: kmeans_3d_color_3cl_mag05_657-mag05_814vsmag05_336-mag05_657vsmag05_438-mag05_657.png

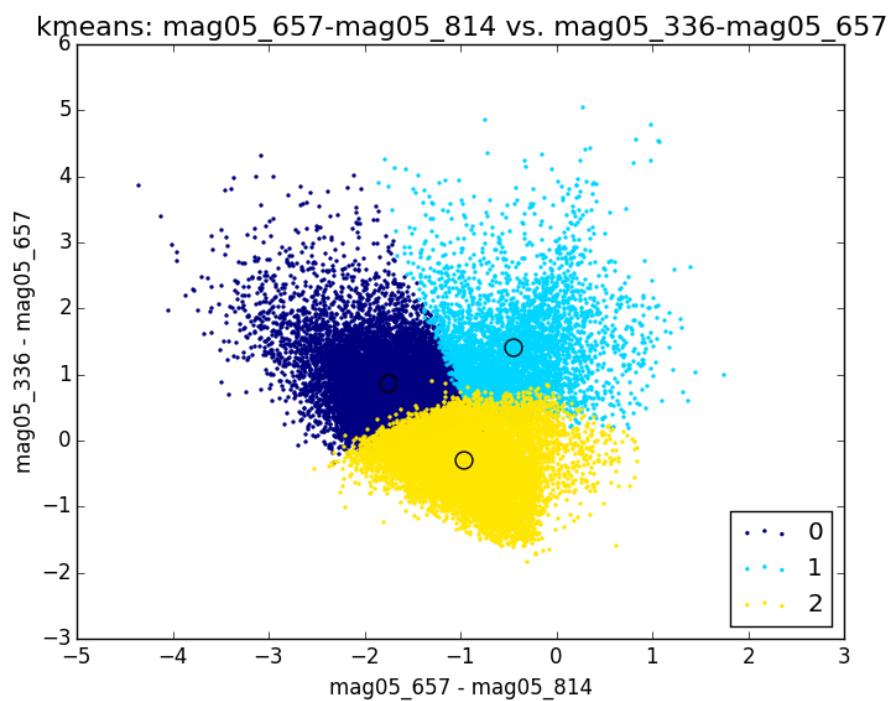


Figure 4: kmeans_3d_3cl_mag05_657-mag05_814vsmag05_336-mag05_657.png

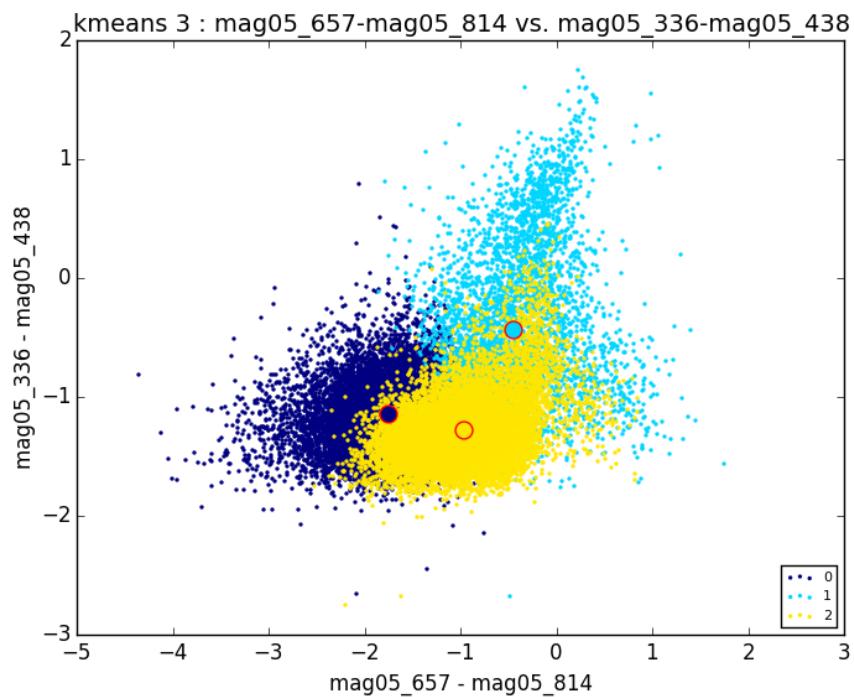


Figure 5: kmeans_base_color_3cl_mag05_657-mag05_814vsmag05_336-mag05_438.png

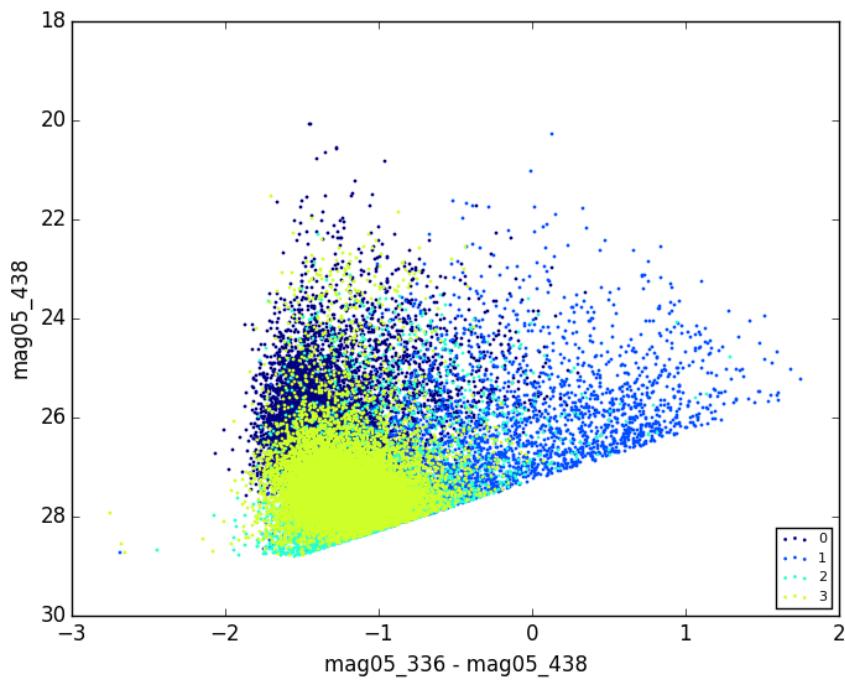


Figure 6: kmeans_CMD_4cl_mag05_336-mag05_438vsmag05_438.png

kmeans results, Ncl=4

Cluster	Nobj	tScore	cScore	rms	AvgDist	MaxDist	MinDist	Stdev	Cen1	Cen2
1	7910	0.353943292894	0.421010193169	0.8028	0.8152	3.2471	0.0010	0.7856	-0.788654614412	-0.0001
2	3707	0.353943292894	0.215895533771	1.4156	1.2207	5.2951	0.0050	1.079	-0.365338278932	-0.0001
3	5718	0.353943292894	0.291131201373	2.0028	1.0053	5.5808	0.0017	1.9075	-1.92138947184	-0.0001
4	11585	0.353943292894	0.383326409097	1.3061	0.7203	2.4855	0.0014	1.2964	-1.47424376349	-0.0001

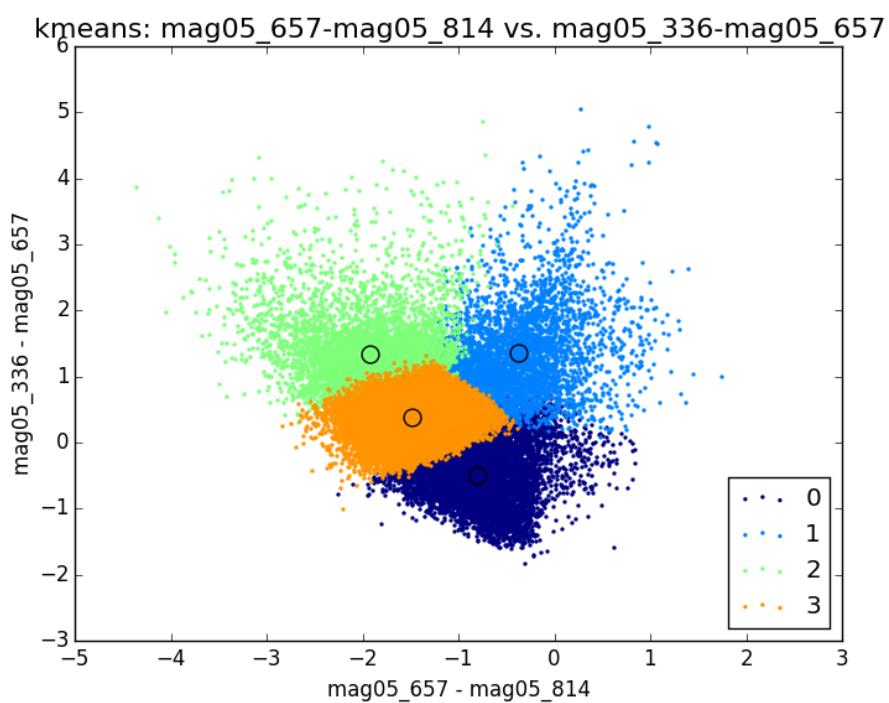


Figure 7: kmeans_3d_4cl_mag05_657-mag05_814vsmag05_336-mag05_657.png

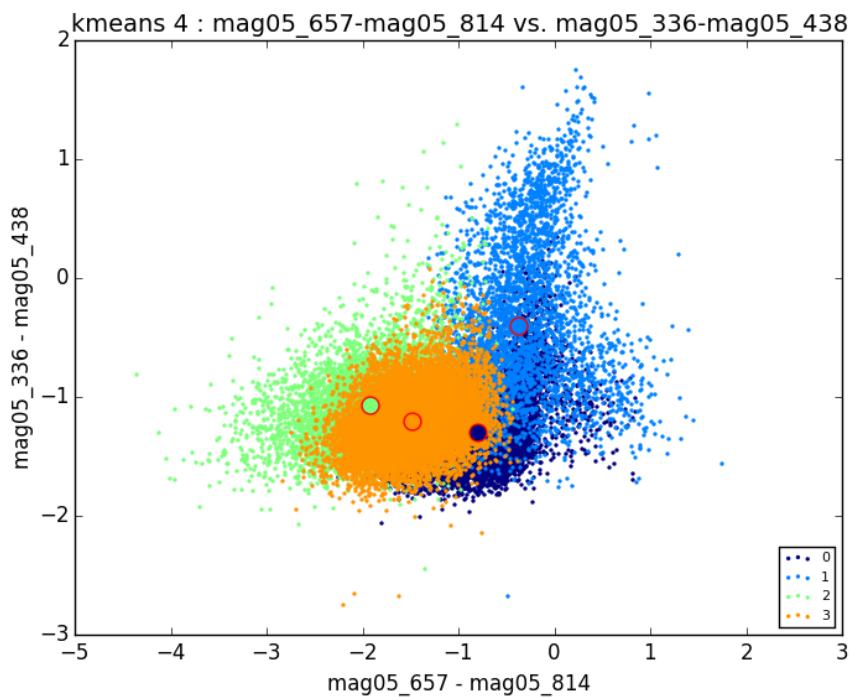


Figure 8: kmeans_base_color_4cl_mag05_657-mag05_814vsmag05_336-mag05_438.png

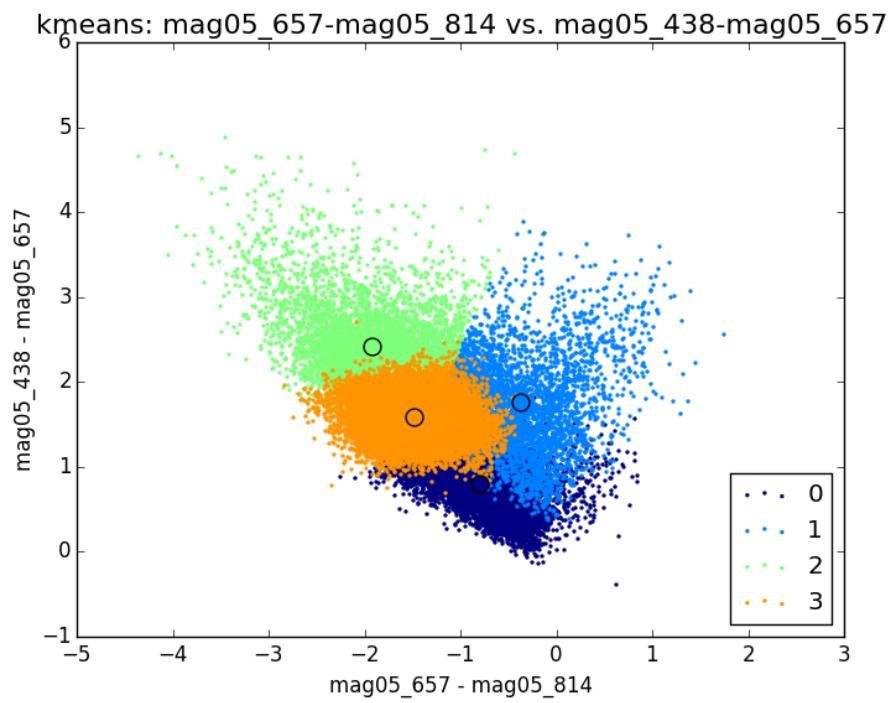


Figure 9: kmeans_3d_4cl_mag05_657-mag05_814vsmag05_438-mag05_657.png

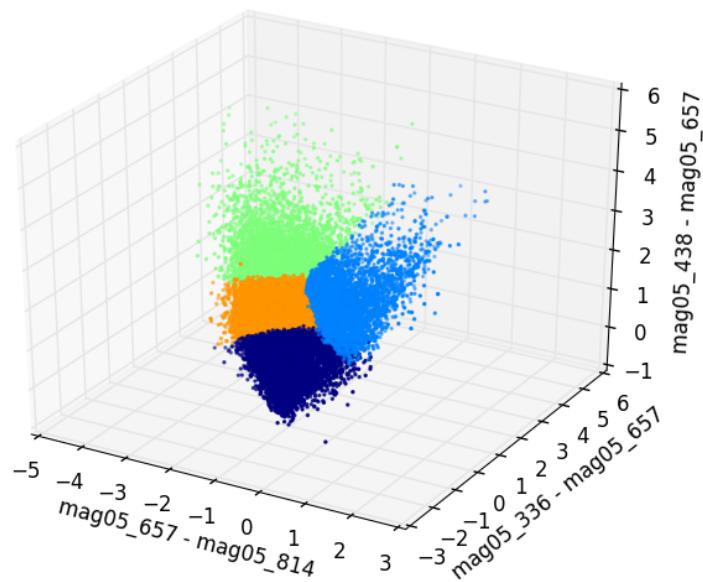


Figure 10: kmeans_3d_color_4cl_mag05_657-mag05_814vsmag05_336-mag05_657vsmag05_438-mag05_657.png

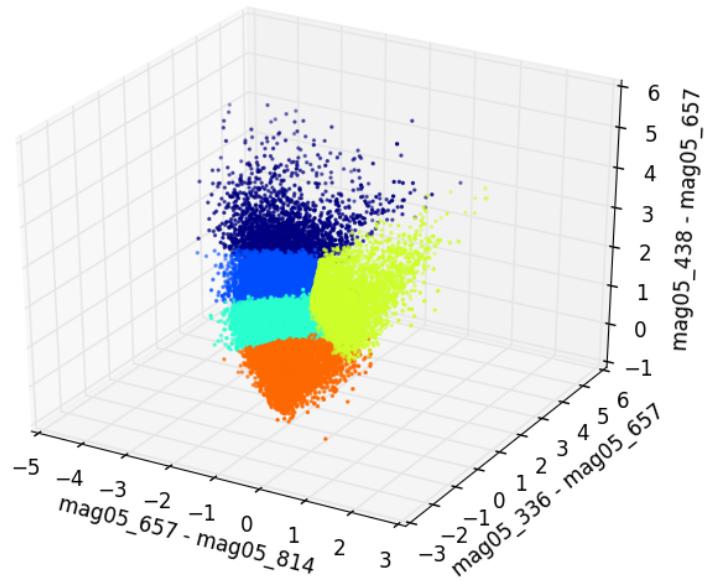


Figure 11: kmeans_3d_color_5cl_mag05_657-mag05_814vsmag05_336-mag05_657vsmag05_438-mag05_657.png

kmeans results, Ncl=5

Cluster	Nobj	tScore	cScore	rms	AvgDist	MaxDist	MinDist	Stdev	Cen1	Cen2
1	2382	0.324012712772	0.206481747856	2.3207	1.1817	5.6682	0.0062	2.1572	-2.0357334173	1.0000
2	8696	0.324012712772	0.351849178	1.5836	0.6878	2.6300	0.0017	1.5443	-1.68478771849	0.0000
3	8603	0.324012712772	0.327487207188	1.1128	0.6639	2.6564	0.0014	1.1122	-1.29432384052	0.0000
4	3541	0.324012712772	0.209739400812	1.3825	1.1971	5.0928	0.0050	1.0437	-0.330228184129	1.0000
5	5698	0.324012712772	0.396431733303	0.7459	0.7421	2.9349	0.0010	0.7166	-0.676333625834	0.0000

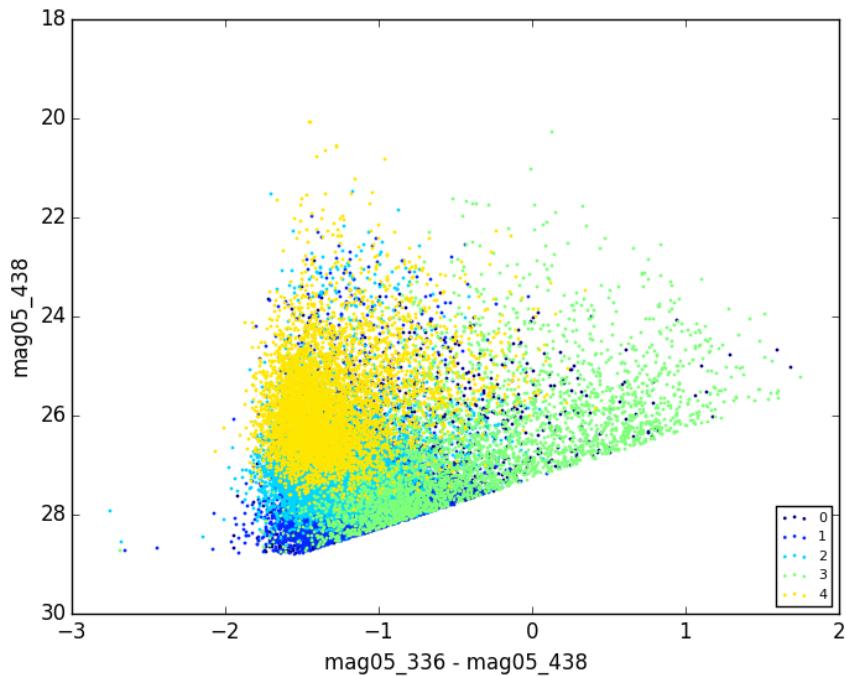


Figure 12: kmeans_CMD_5cl_mag05_336-mag05_438vsmag05_438.png

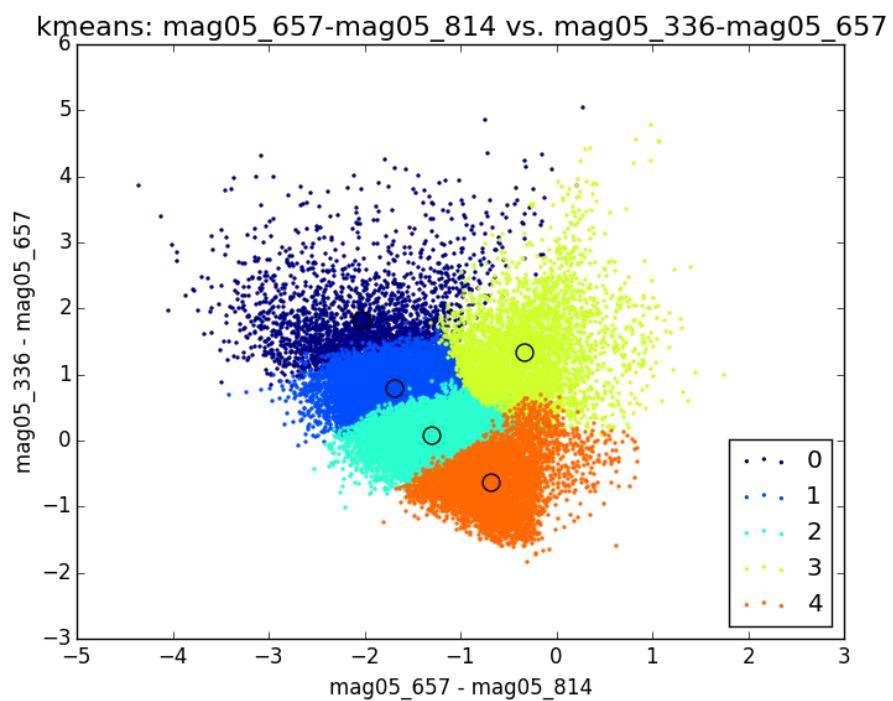


Figure 13: kmeans_3d_5cl_mag05_657-mag05_814vsmag05_336-mag05_657.png

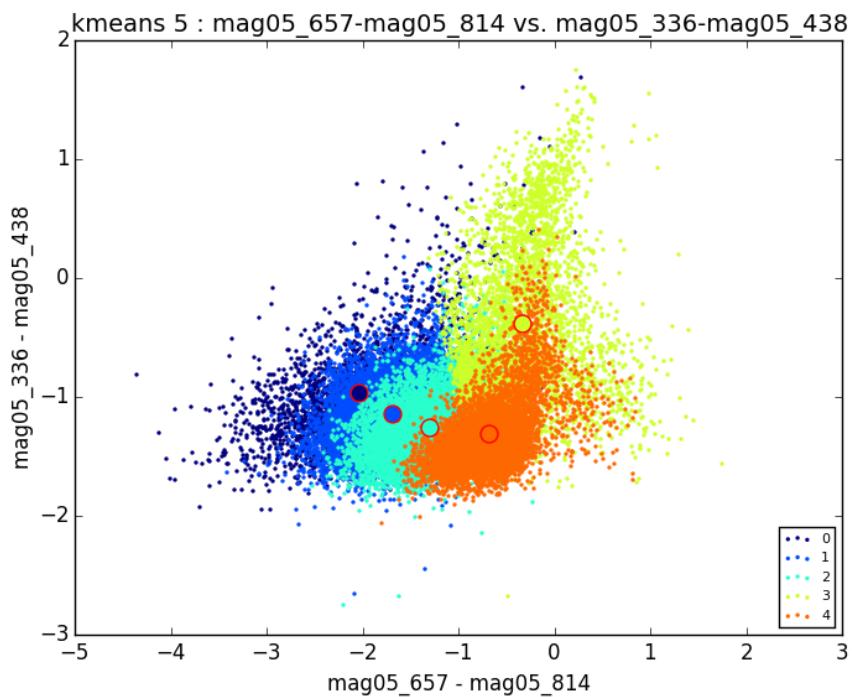


Figure 14: kmeans_base_color_5cl_mag05_657-mag05_814vsmag05_336-mag05_438.png

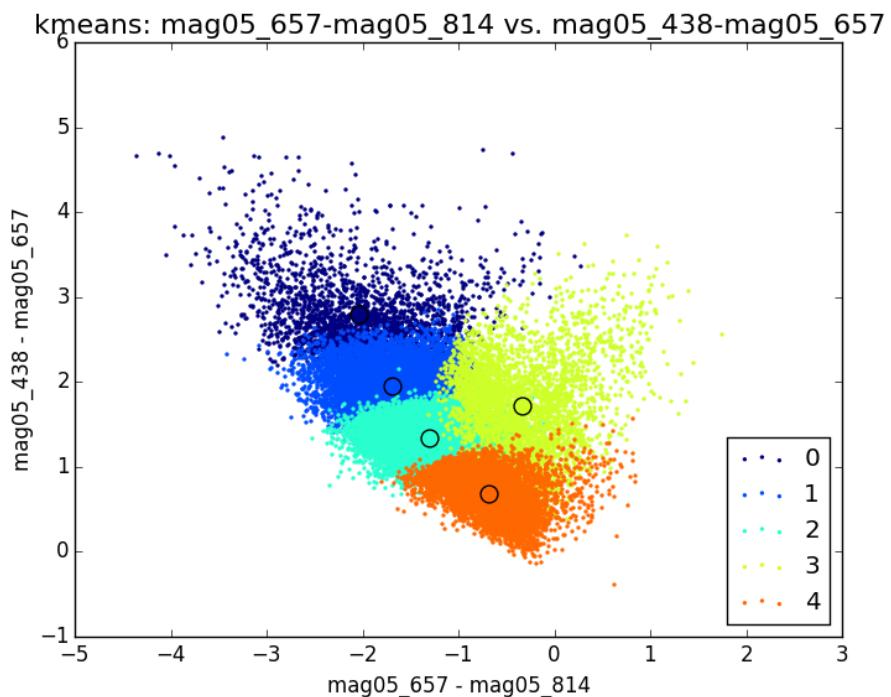


Figure 15: kmeans_3d_5cl_mag05_657-mag05_814vsmag05_438-mag05_657.png

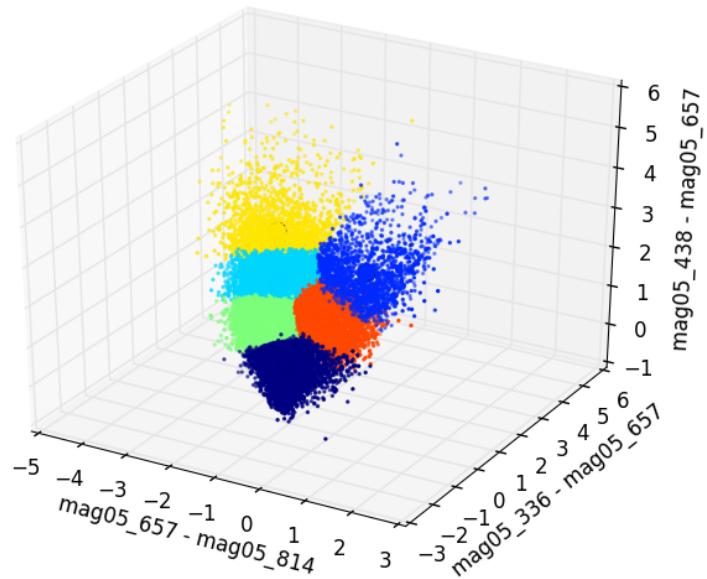


Figure 16: kmeans_3d_color_6cl_mag05_657-mag05_814vsmag05_336-mag05_657vsmag05_438-mag05_657.png

kmeans results, Ncl=6

Cluster	Nobj	tScore	cScore	rms	AvgDist	MaxDist	MinDist	Stdev	Cen1	Cen2
1	5365	0.329385330132	0.428266659954	0.7540	0.6858	2.8781	0.0010	0.7161	-0.704403541473	-0.000000000000
2	1704	0.329385330132	0.20076334248	1.7640	1.2599	4.6000	0.0097	1.2318	-0.275637323944	1.000000000000
3	8437	0.329385330132	0.33866229044	1.5923	0.6806	2.3397	0.0017	1.5491	-1.6767986251	0.000000000000
4	7448	0.329385330132	0.360056847625	1.1475	0.6033	2.0421	0.0014	1.1473	-1.40731511815	0.000000000000
5	2146	0.329385330132	0.244511797375	2.3360	1.0783	5.5151	0.0062	2.1993	-2.17632758621	0.000000000000
6	3820	0.329385330132	0.215275633103	1.0189	0.8522	2.8493	0.0030	0.887	-0.552393455497	0.000000000000

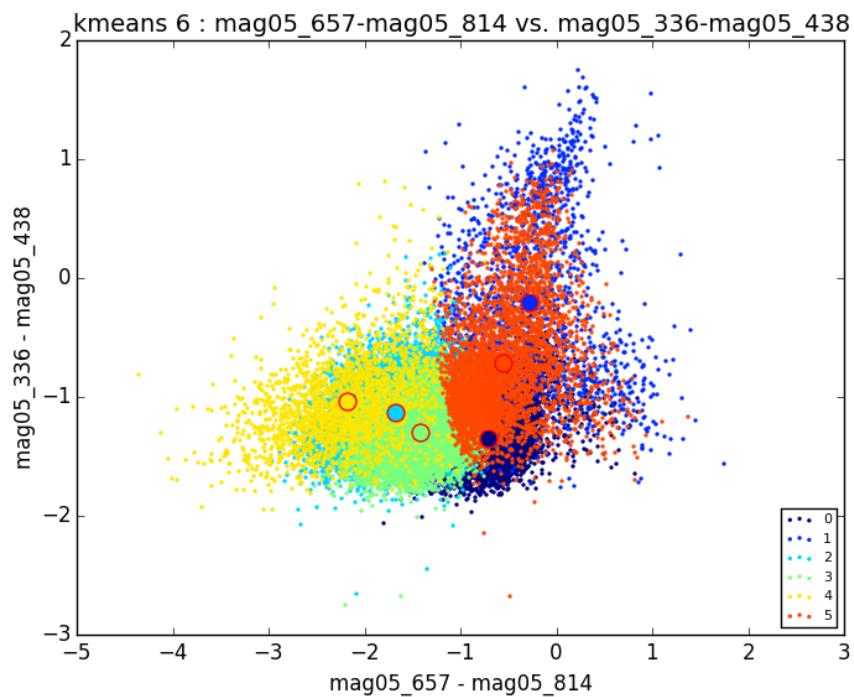


Figure 17: kmeans_base_color_6cl_mag05_657-mag05_814vsmag05_336-mag05_438.png

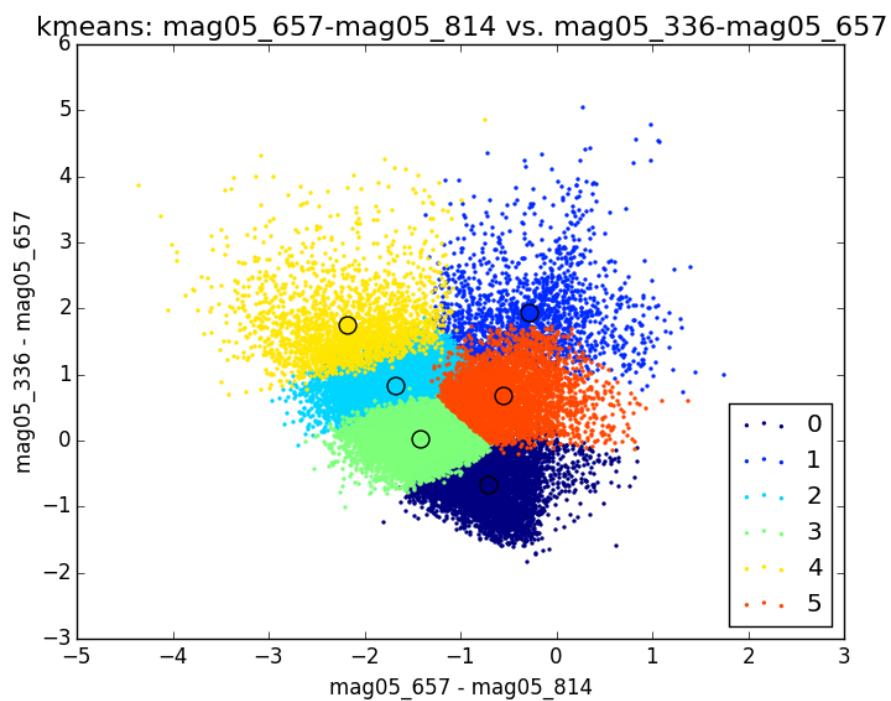


Figure 18: kmeans_3d_6cl_mag05_657-mag05_814vsmag05_336-mag05_657.png

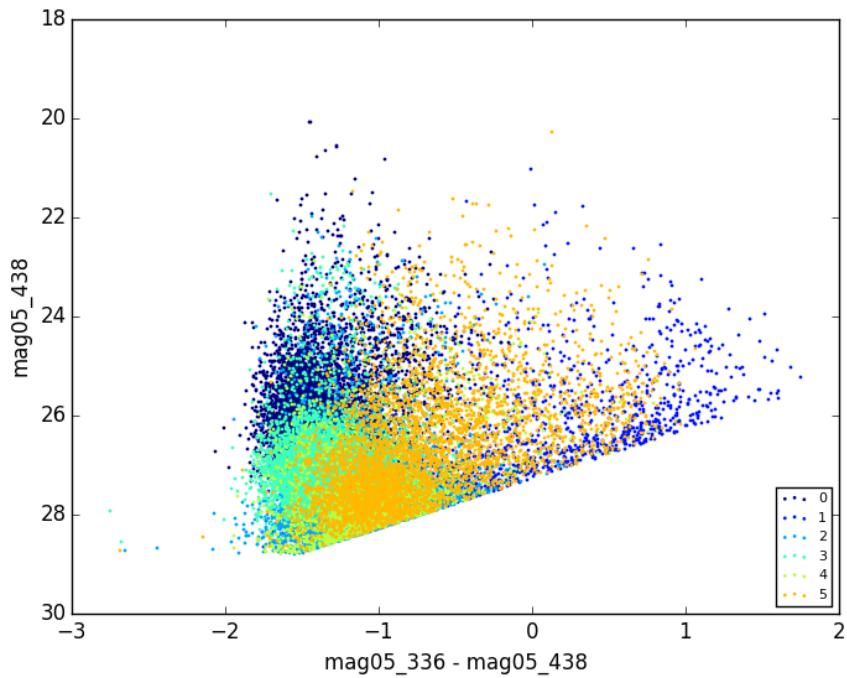


Figure 19: kmeans_CMD_6cl_mag05_336-mag05_438vsmag05_438.png

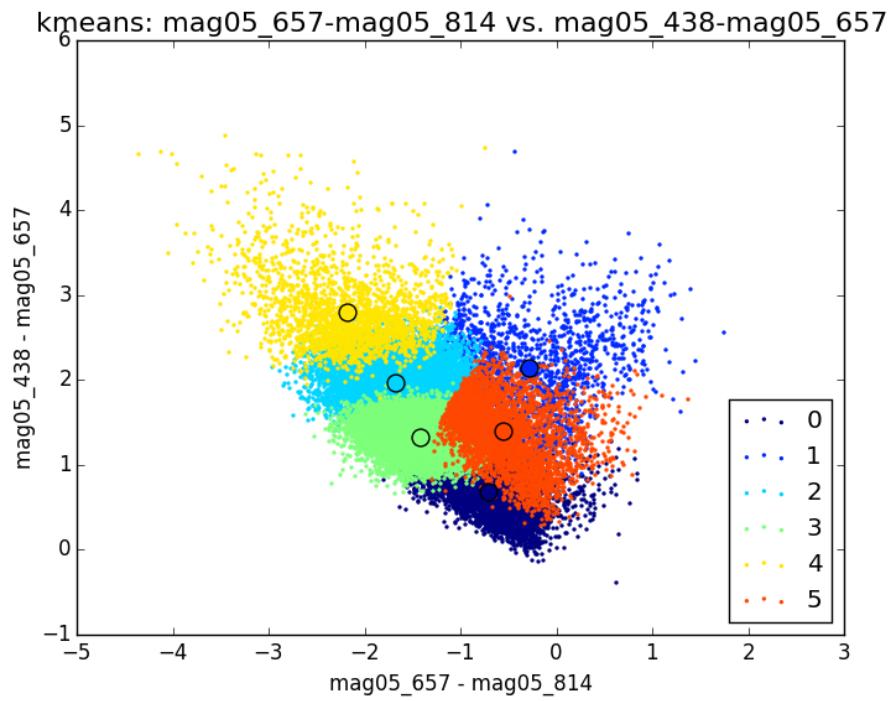


Figure 20: kmeans_3d_6cl_mag05_657-mag05_814vsmag05_438-mag05_657.png

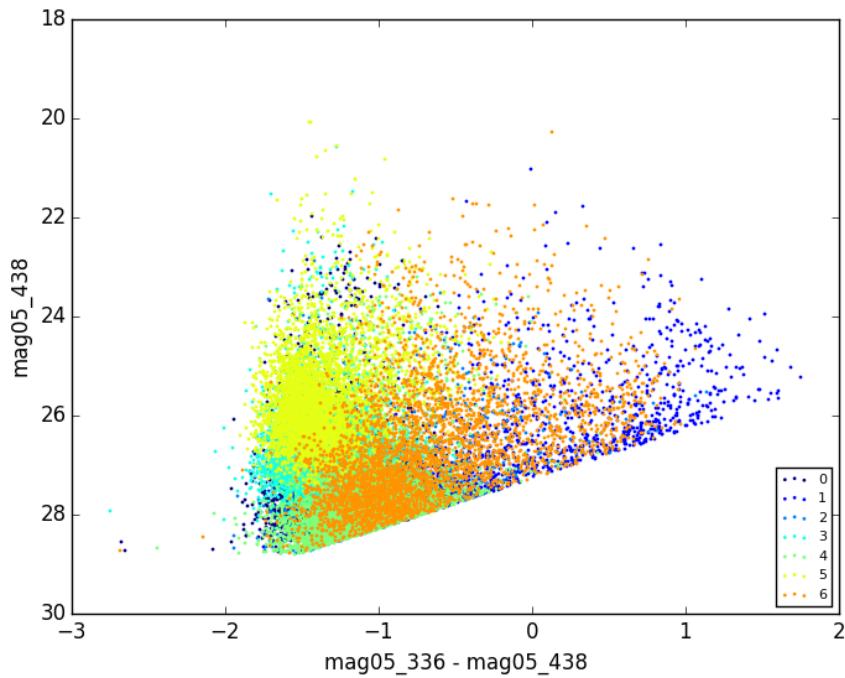


Figure 21: kmeans_CMD_7cl_mag05_336-mag05_438vsmag05_438.png

kmeans results, Ncl=7

Cluster	Nobj	tScore	cScore	rms	AvgDist	MaxDist	MinDist	Stdev	Cen1	Cen2
1	6938	0.301692318309	0.31684332589	1.3917	0.5731	2.0982	0.0022	1.3809	-1.61407840876	0.0
2	1476	0.301692318309	0.208394262782	1.7914	1.2481	4.3720	0.0097	1.2231	-0.222986449864	1.0
3	1099	0.301692318309	0.239101249968	2.5928	1.1837	5.2957	0.0071	2.41	-2.31297634213	2.0
4	6061	0.301692318309	0.336201119329	1.0118	0.5670	2.3603	0.0014	1.0091	-1.22333063851	-0.0
5	5443	0.301692318309	0.275754161651	1.7781	0.7024	2.7486	0.0017	1.7016	-1.76226933676	1.0
6	4237	0.301692318309	0.398027691585	0.7274	0.6494	2.6402	0.0010	0.6792	-0.629264101959	-0.0
7	3666	0.301692318309	0.199463292288	1.0457	0.8751	2.9137	0.0030	0.8931	-0.522583196945	0.0

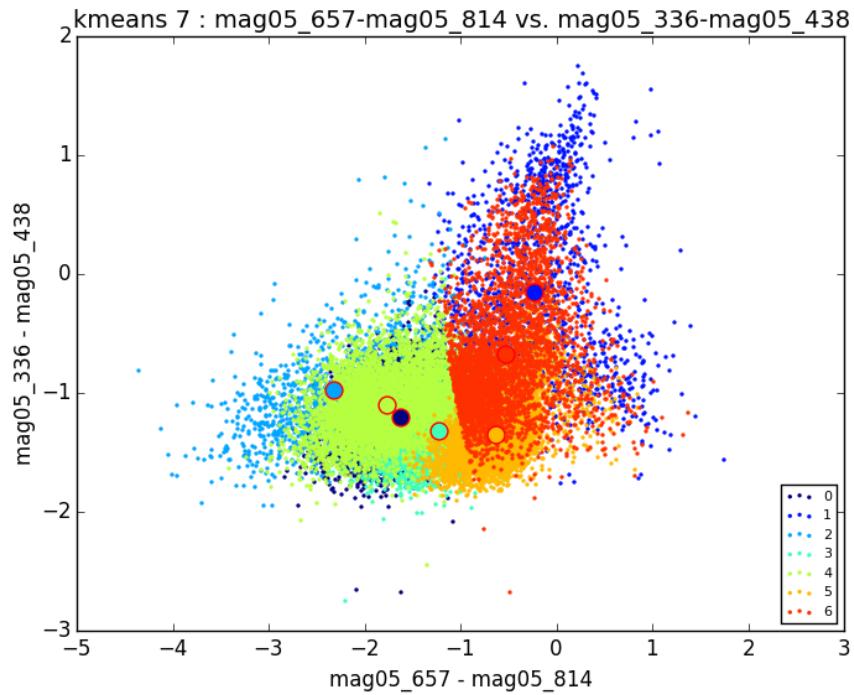


Figure 22: kmeans_base_color_7cl_mag05_657-mag05_814vsmag05_336-mag05_438.png

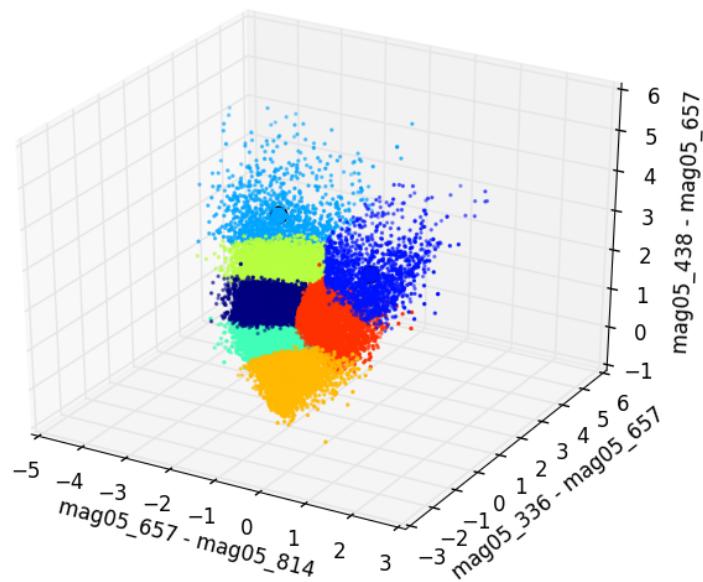


Figure 23: kmeans_3d_color_7cl_mag05_657-mag05_814vsmag05_336-mag05_657vsmag05_438-mag05_657.png

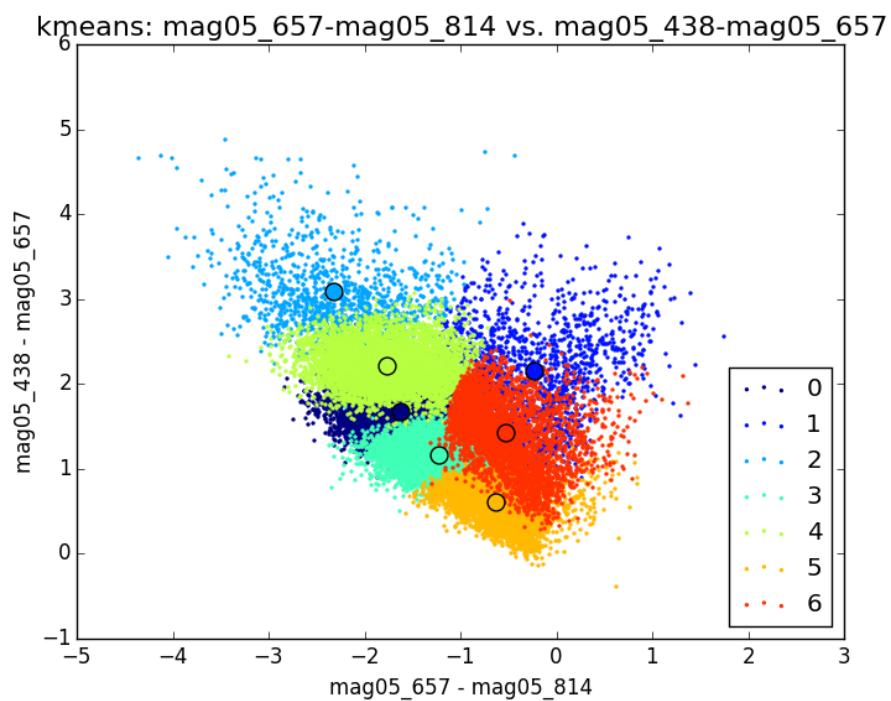


Figure 24: kmeans_3d_7cl_mag05_657-mag05_814vsmag05_438-mag05_657.png

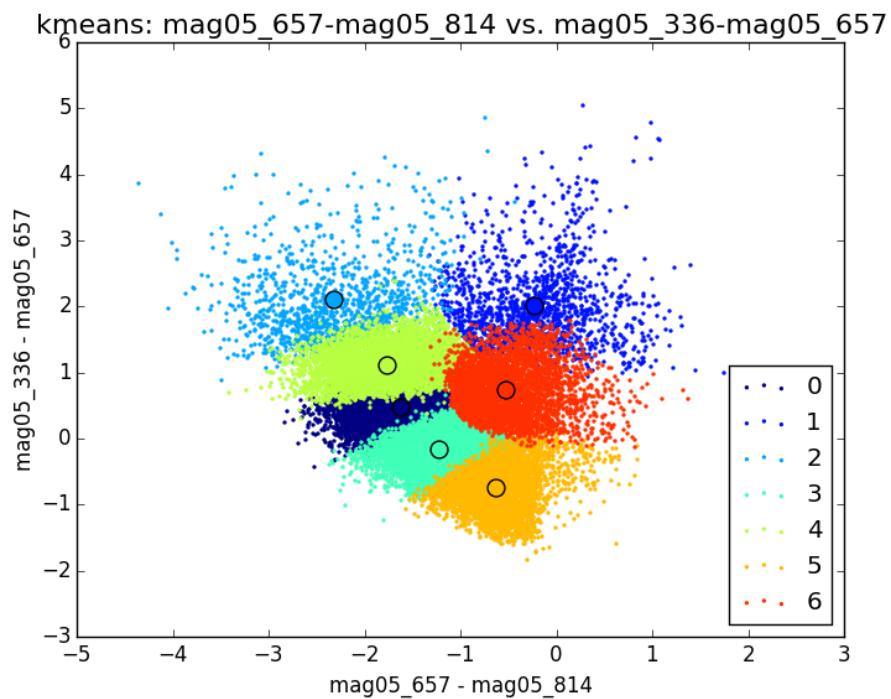


Figure 25: kmeans_3d_7cl_mag05_657-mag05_814vsmag05_336-mag05_657.png

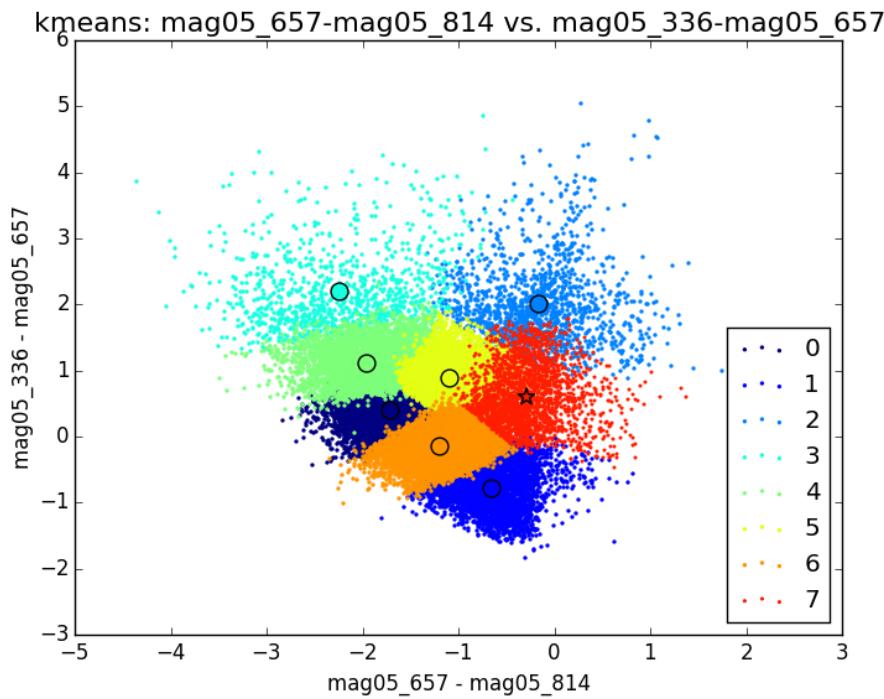


Figure 26: kmeans_3d_8cl_mag05_657-mag05_814vs mag05_336-mag05_657.png

kmeans results, Ncl=8

Cluster	Nobj	tScore	cScore	rms	AvgDist	MaxDist	MinDist	Stdev	Cen1	Cen2
1	5639	0.310213916973	0.323508258531	1.4048	0.5309	2.0189	0.0030	1.401	-1.7123881894	0.0000
2	4008	0.310213916973	0.424965979457	0.7370	0.6114	2.7314	0.0010	0.6794	-0.653501996008	0.0000
3	1400	0.310213916973	0.2071646286	1.7709	1.2373	4.3720	0.0097	1.1838	-0.156452857143	0.0000
4	1019	0.310213916973	0.20707059334	2.6148	1.2176	4.8243	0.0071	2.4047	-2.2352983317	0.0000
5	4247	0.310213916973	0.31350922736	1.8564	0.6454	2.5193	0.0017	1.7969	-1.95435295503	1.0000
6	4330	0.310213916973	0.272888629622	1.3802	0.6136	2.4555	0.0022	1.2638	-1.09297990762	0.0000
7	6029	0.310213916973	0.322444265676	1.0001	0.5620	2.2263	0.0014	0.9981	-1.19636407364	0.0000
8	2248	0.310213916973	0.216070469776	0.8566	0.8606	2.6536	0.0030	0.703	-0.284862544484	0.0000

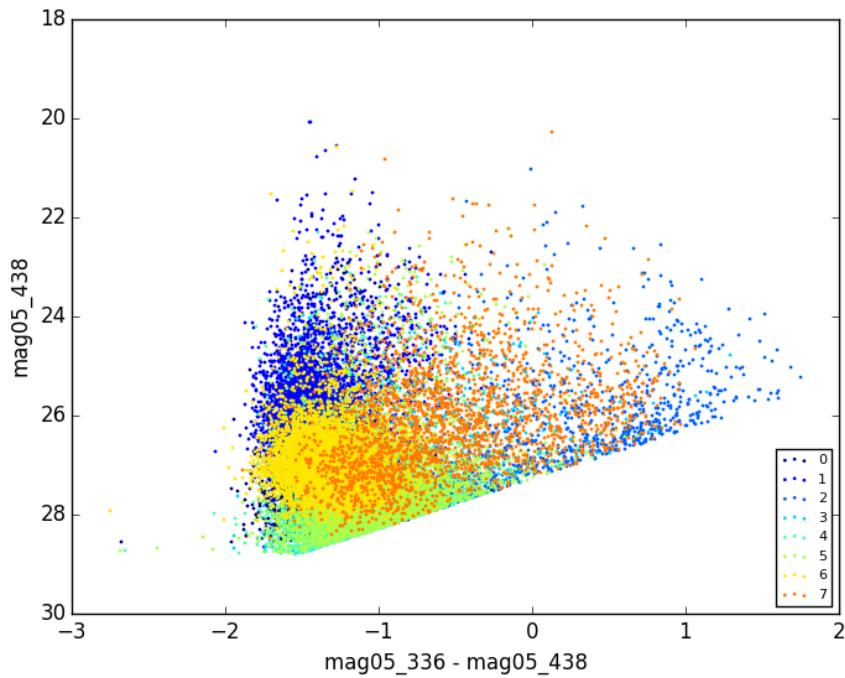


Figure 27: kmeans_CMD_8cl_mag05_336-mag05_438vsmag05_438.png

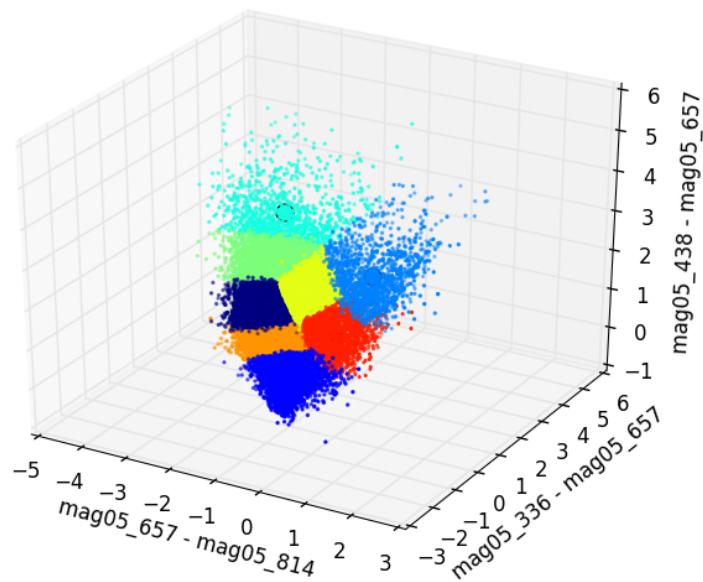


Figure 28: kmeans_3d_color_8cl_mag05_657-mag05_814vsmag05_336-mag05_657vsmag05_438-mag05_657.png

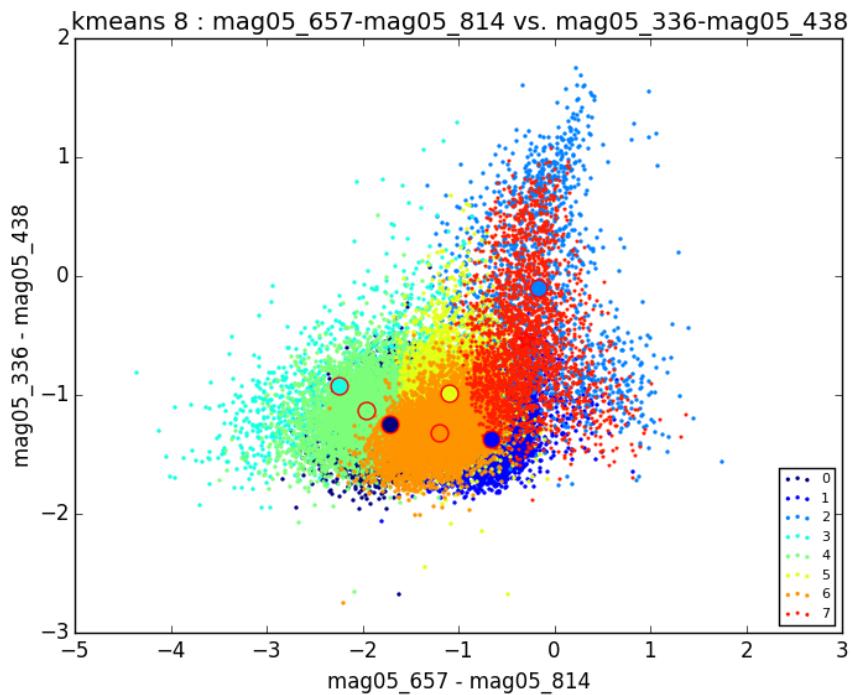


Figure 29: kmeans_base_color_8cl_mag05_657-mag05_814vsmag05_336-mag05_438.png

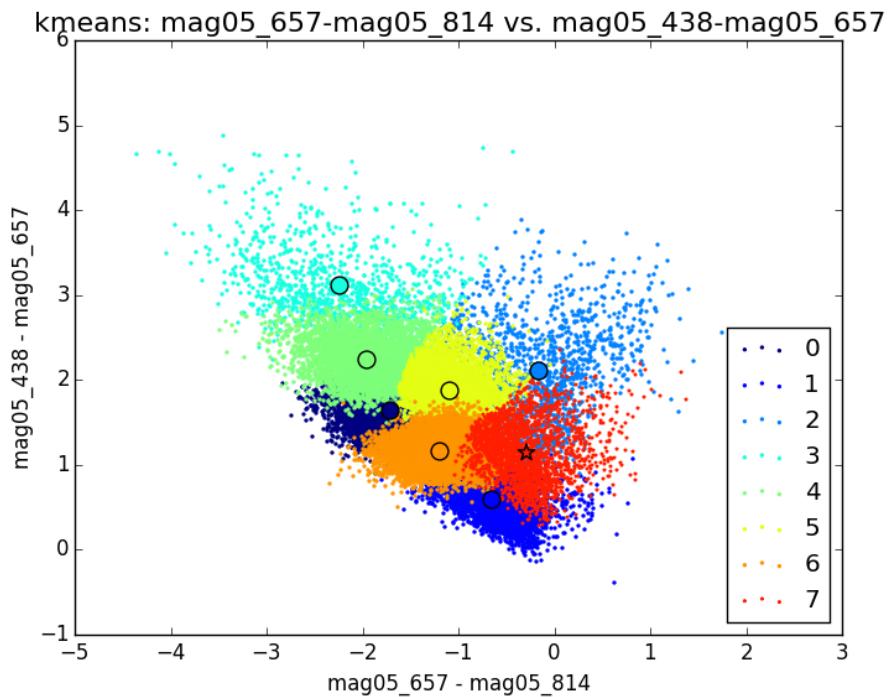


Figure 30: kmeans_3d_8cl_mag05_657-mag05_814vsmag05_438-mag05_657.png

Meanshift results

Bandw	Nclust	score	TotObj	N1	N2	N3	N4	N5	N6	N7	N8	N9	N10
1.0769	1	-99.0	28920	28920	0	0	0	0	0	0	0	0	0
0.6000	13	0.0646239207783	28920	23533	1798	1071	930	612	525	342	91	8	4
0.6500	11	0.0671244144651	28920	23579	1815	1130	916	617	527	265	48	12	10
0.7000	8	0.0931412175013	28920	24429	1785	1157	1031	241	169	106	2	0	0
0.7500	5	0.455740354176	28920	28269	286	234	129	2	0	0	0	0	0
0.8000	4	0.482771615317	28920	28313	357	234	16	0	0	0	0	0	0

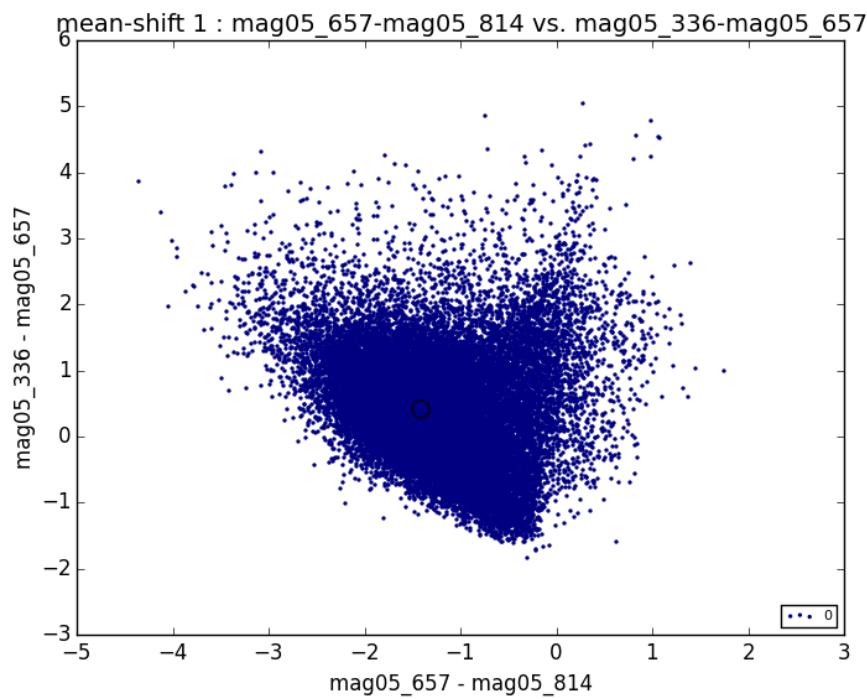


Figure 31: meanshift_3d_color_1cl_mag05_657-mag05_814vsmag05_336-mag05_657.png

meanshift results, Ncl=1

Cluster	Nobj	tScore	cScore	rms	AvgDist	MaxDist	MinDist	Stdev	Cen1	Cen2	
1	28920	-99.0	-99.0	1.3819	1.5436	8.9452	0.0010	1.3578	-1.41863056128	0.41675560674	1.60

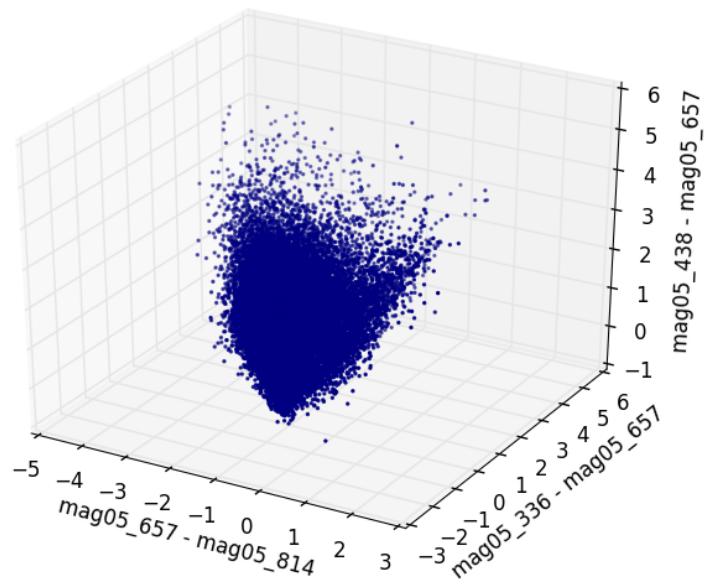


Figure 32: meanshift_3d_color_1cl_mag05_657-mag05_814vsmag05_336-mag05_657vsmag05_438-mag05_657.png

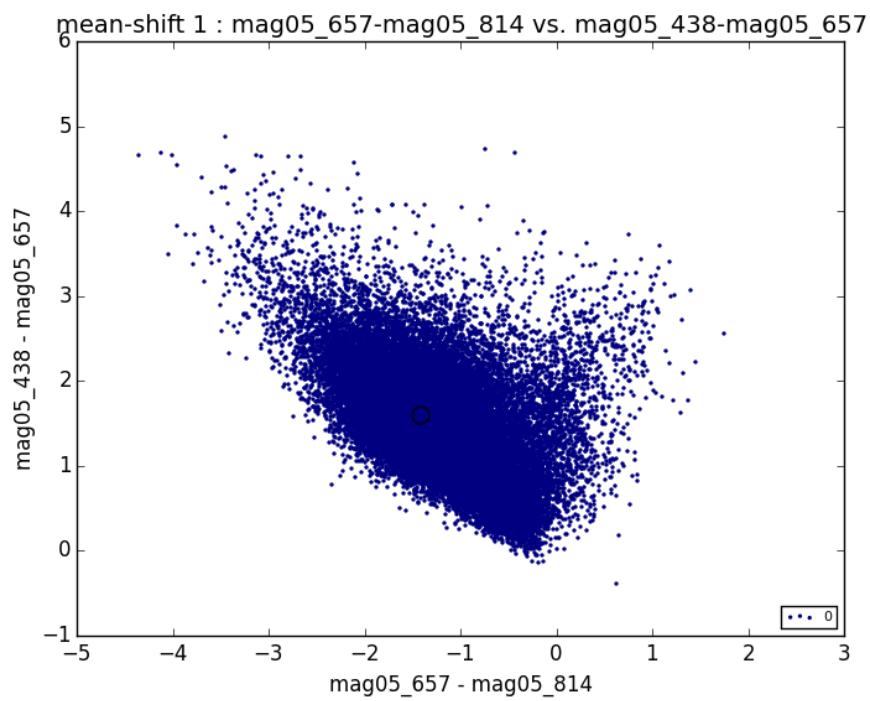


Figure 33: meanshift_3d_color_1cl_mag05_657-mag05_814vsmag05_438-mag05_657.png

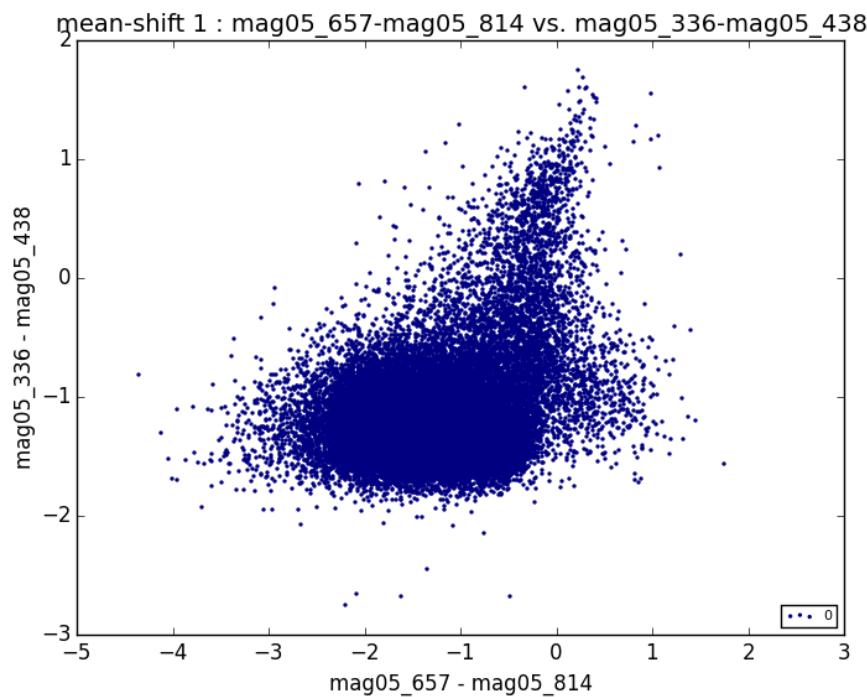


Figure 34: meanshift_base_color_1cl_mag05_657-mag05_814vsmag05_336-mag05_438.png

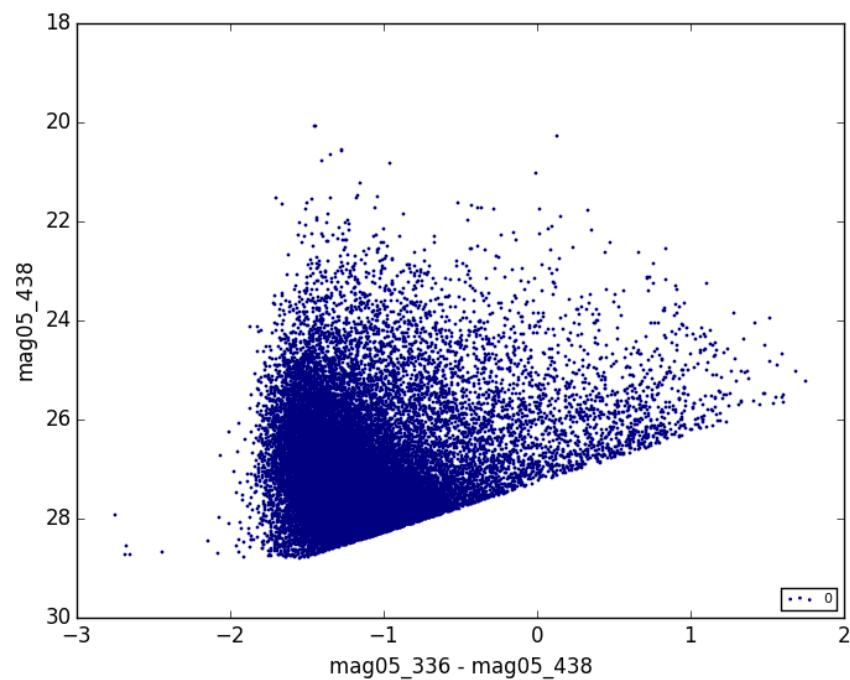


Figure 35: meanshift_CMD_1cl_mag05_336-mag05_438vsmag05_438.png

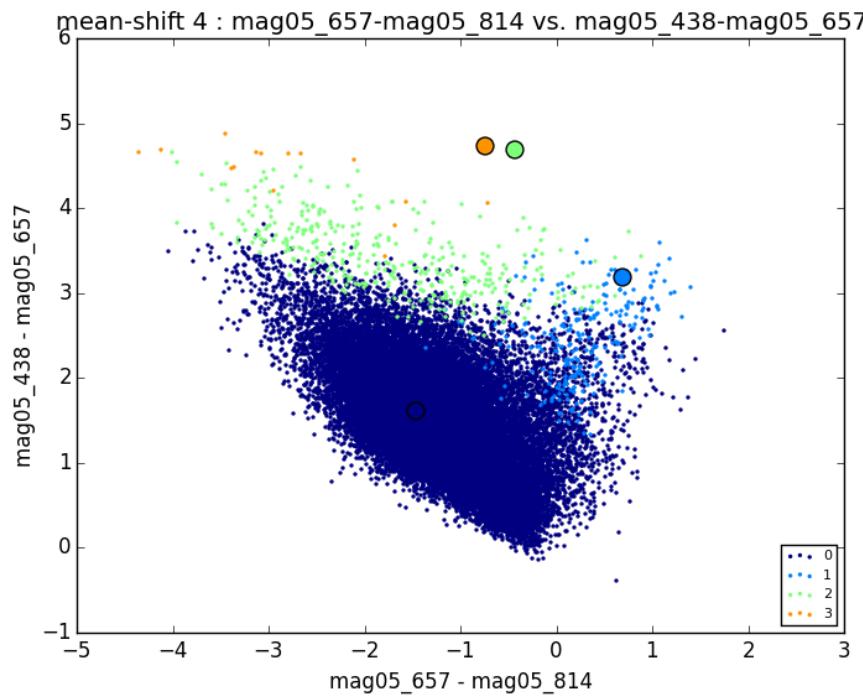


Figure 36: meanshift_3d_color_4cl_mag05_657-mag05_814vsmag05_438-mag05_657.png

meanshift results, Ncl=4

Cluster	Nobj	tScore	cScore	rms	AvgDist	MaxDist	MinDist	Stdev	Cen1	Cen2
1	28313	0.482771615317	0.486944905214	1.3416	1.4652	7.1736	0.0010	1.3223	-1.46167834891	0.482771615317
2	234	0.482771615317	0.49685102659	2.2561	1.2353	3.6218	0.0177	1.2806	0.6938	
3	357	0.482771615317	0.14817174106	2.8204	1.4929	5.1878	0.0252	2.3881	-0.435	
4	16	0.482771615317	0.357722617418	3.8257	1.4693	3.7535	0.1591	3.2967	-0.736	

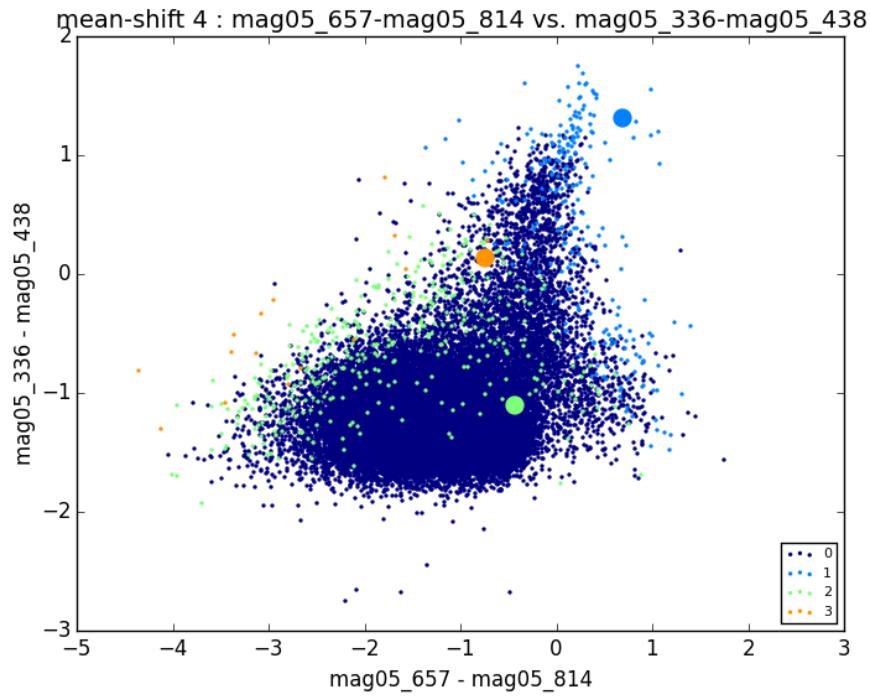


Figure 37: meanshift_base_color_4cl_mag05_657-mag05_814vsmag05_336-mag05_438.png

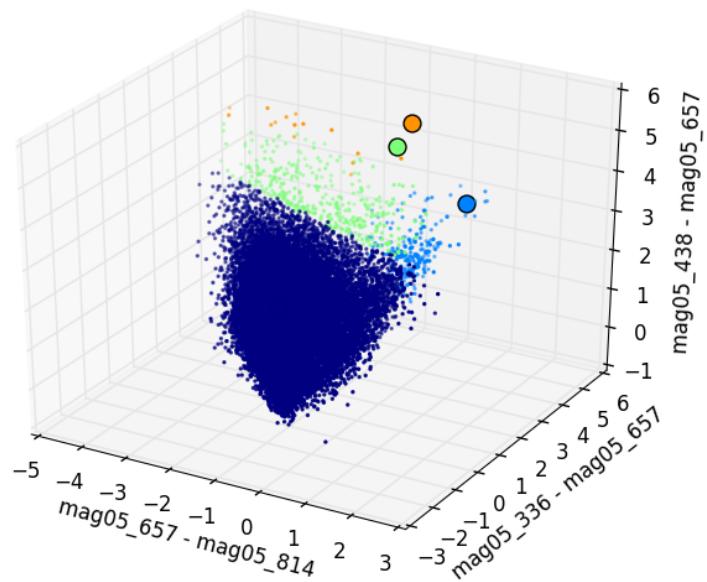


Figure 38: meanshift_3d_color_4cl_mag05_657-mag05_814vsmag05_336-mag05_657vsmag05_438-mag05_657.png

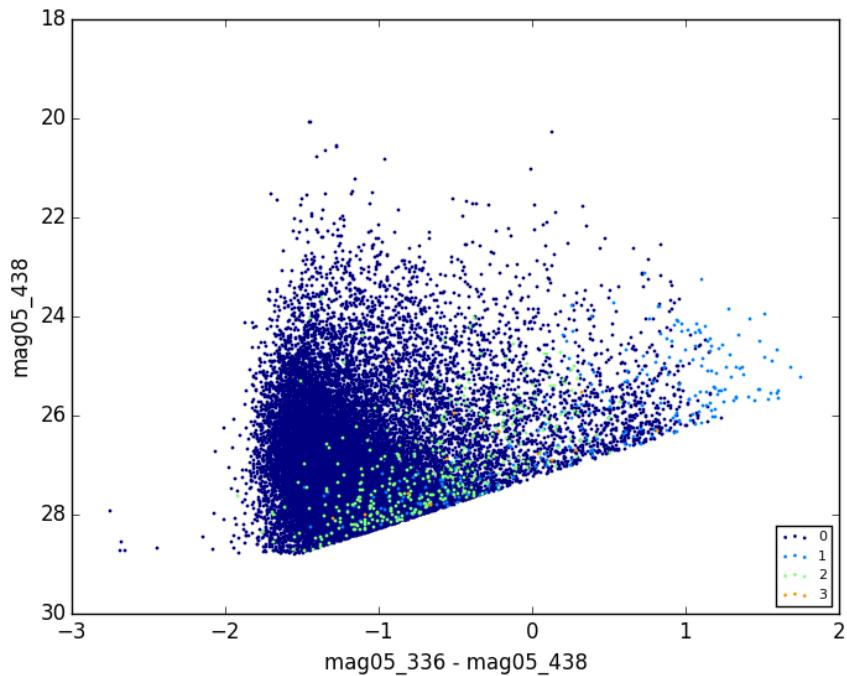


Figure 39: meanshift_CMD_4cl_mag05_336-mag05_438vsmag05_438.png

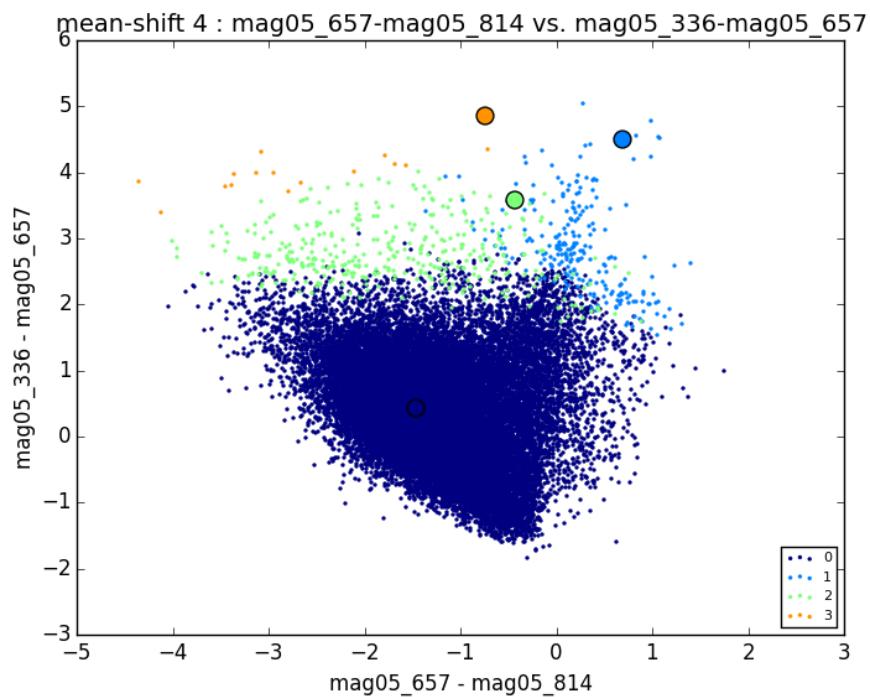


Figure 40: meanshift_3d_color_4cl_mag05_657-mag05_814vsmag05_336-mag05_657.png

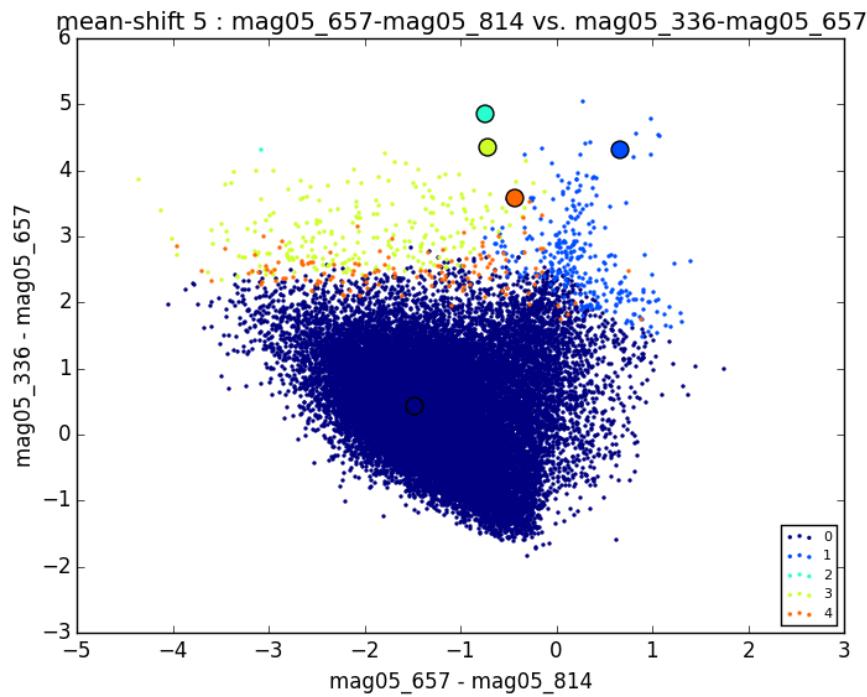


Figure 41: meanshift_3d_color_5cl_mag05_657-mag05_814vsmag05_336-mag05_657.png

meanshift results, Ncl=5

Cluster	Nobj	tScore	cScore	rms	AvgDist	MaxDist	MinDist	Stdev	Cen1
1	28269	0.455740354176	0.460653327345	1.3405	1.4613	7.1736	0.0010	1.3214	-1.4753185656
2	286	0.455740354176	0.491535162078	2.1791	1.1927	3.7829	0.0177	1.2232	0.658636363636
3	2	0.455740354176	0.00662023817137	4.0031	2.4059	2.4059	2.4059	3.1615	-0.736
4	234	0.455740354176	0.0664971690943	2.9930	1.3986	4.3327	0.0252	2.5766	-0.715
5	129	0.455740354176	0.0127868036326	2.7086	1.4229	5.0819	0.0615	2.2782	-0.435

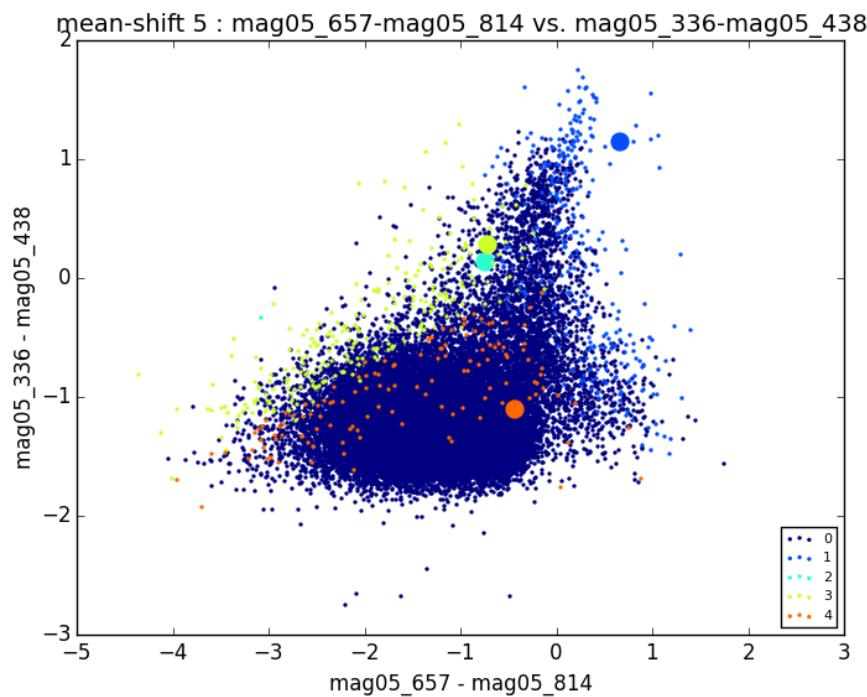


Figure 42: meanshift_base_color_5cl_mag05_657-mag05_814vsmag05_336-mag05_438.png

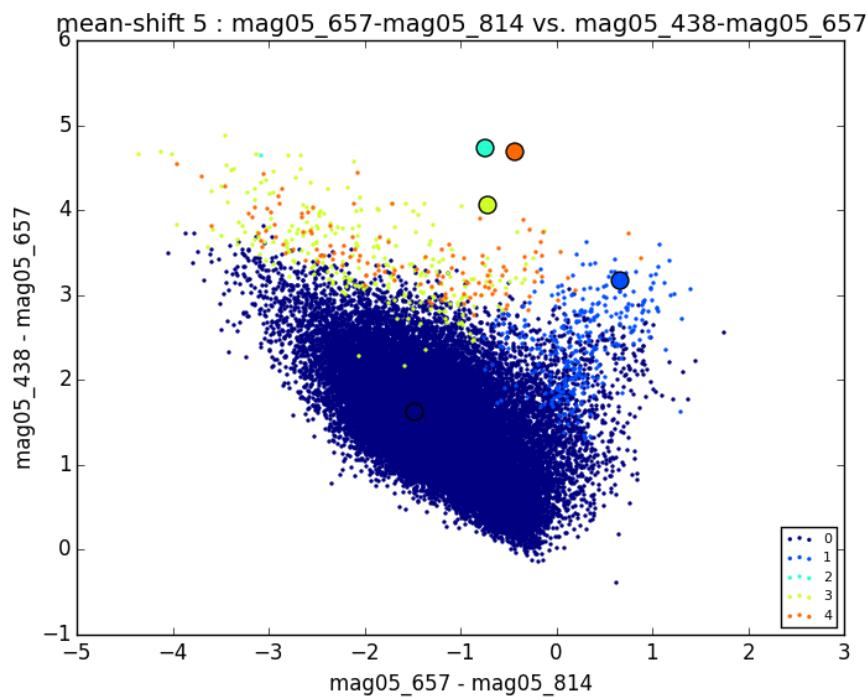


Figure 43: meanshift_3d_color_5cl_mag05_657-mag05_814vsmag05_438-mag05_657.png

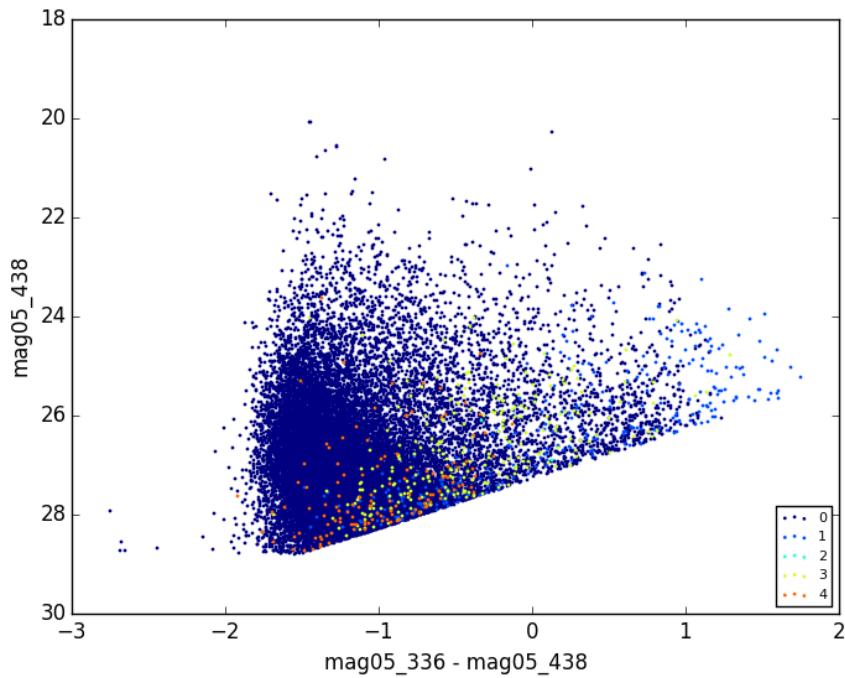


Figure 44: meanshift_CMD_5cl_mag05_336-mag05_438vsmag05_438.png

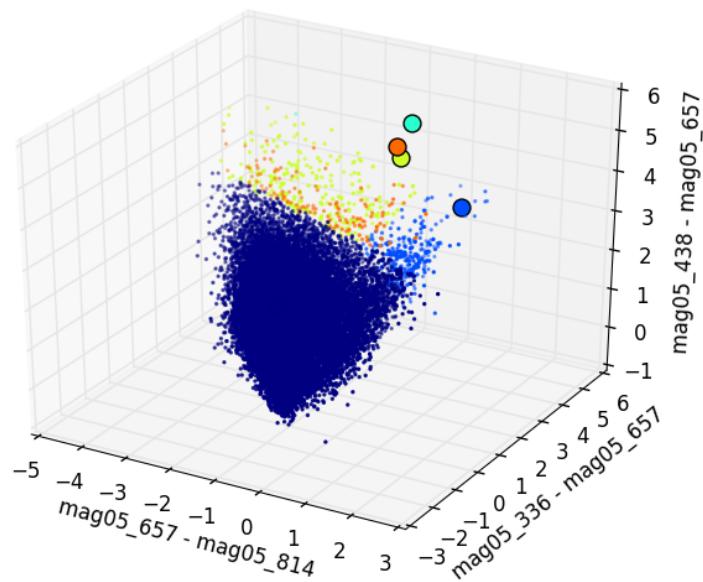


Figure 45: meanshift_3d_color_5cl_mag05_657-mag05_814vsmag05_336-mag05_657vsmag05_438-mag05_657.png

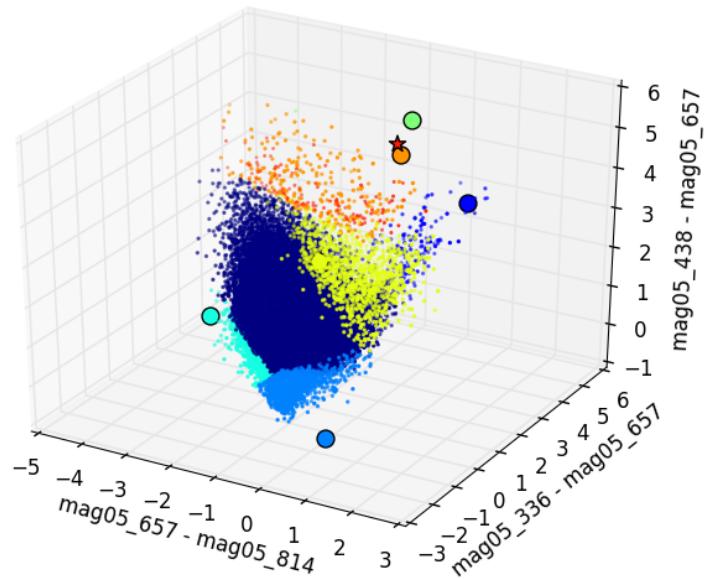


Figure 46: meanshift_3d_color_8cl_mag05_657-mag05_814vsmag05_336-mag05_657vsmag05_438-mag05_657.png

meanshift results, Ncl=8

Cluster	Nobj	tScore	cScore	rms	AvgDist	MaxDist	MinDist	Stdev	Cen1
1	24429	0.0931412175013	0.0450336331515	1.3726	1.2877	5.5788	0.0010	1.3486	-1.47688954345
2	169	0.0931412175013	0.438546755275	2.2946	1.0844	3.1158	0.0177	1.3237	0.739777777778
3	1785	0.0931412175013	0.502304106397	0.7038	0.5409	2.4471	0.0014	0.6227	0.63
4	1031	0.0931412175013	0.345907367447	1.0483	0.6172	2.5514	0.0032	0.9631	-2.2
5	2	0.0931412175013	0.0143348435507	4.0031	2.4059	2.4059	2.4059	3.1615	-0.736
6	1157	0.0931412175013	0.224628734497	1.6887	1.2341	4.3445	0.0136	1.2181	-0.482
7	241	0.0931412175013	0.011412466491	2.9772	1.4217	4.4438	0.0252	2.5544	-0.715
8	106	0.0931412175013	0.0328786656261	2.7970	1.4004	4.7909	0.0616	2.3815	-0.435

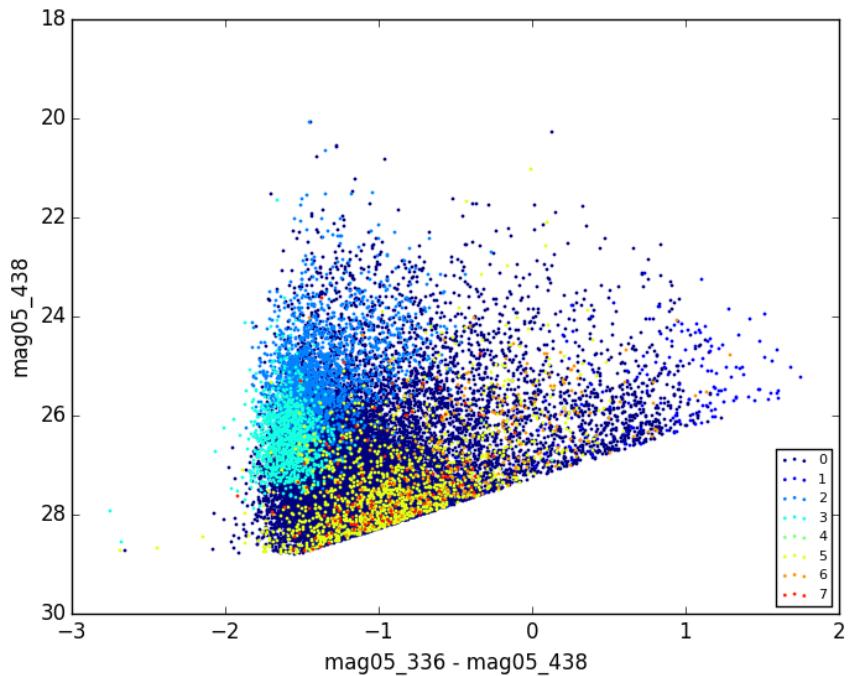


Figure 47: meanshift_CMD_8cl_mag05_336-mag05_438vsmag05_438.png

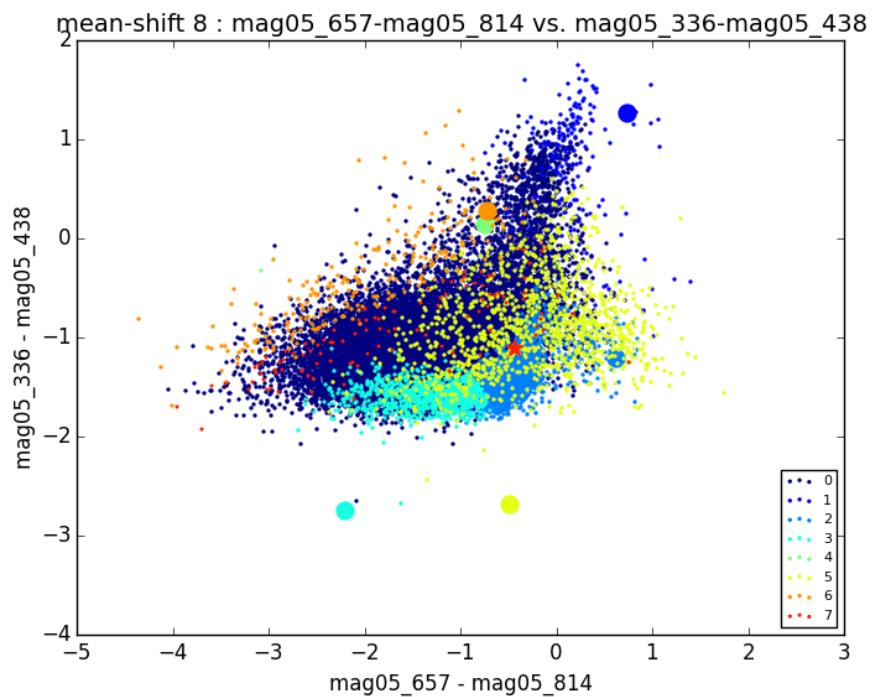


Figure 48: meanshift_base_color_8cl_mag05_657-mag05_814vsmag05_336-mag05_438.png

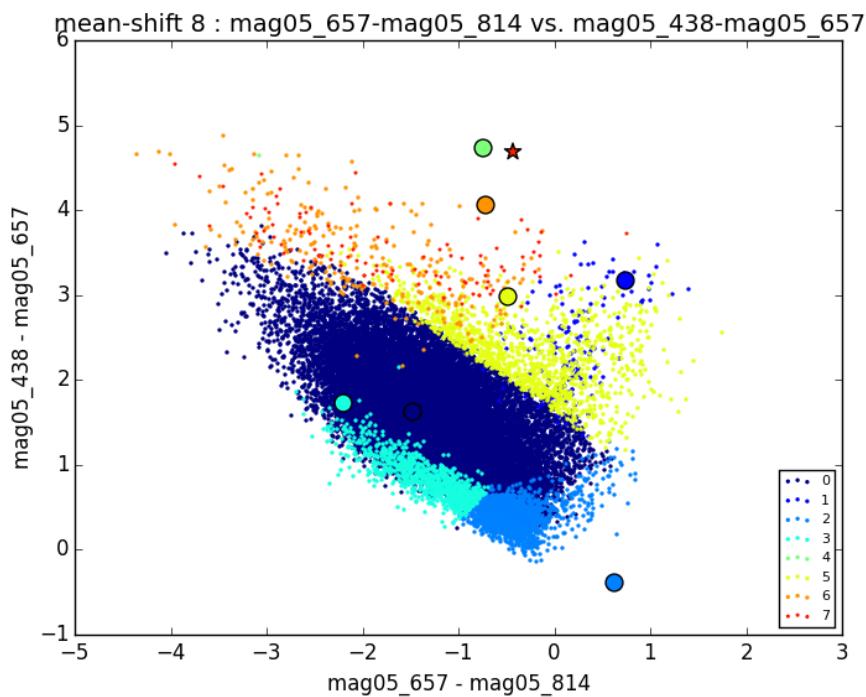


Figure 49: meanshift_3d_color_8cl_mag05_657-mag05_814vsmag05_438-mag05_657.png

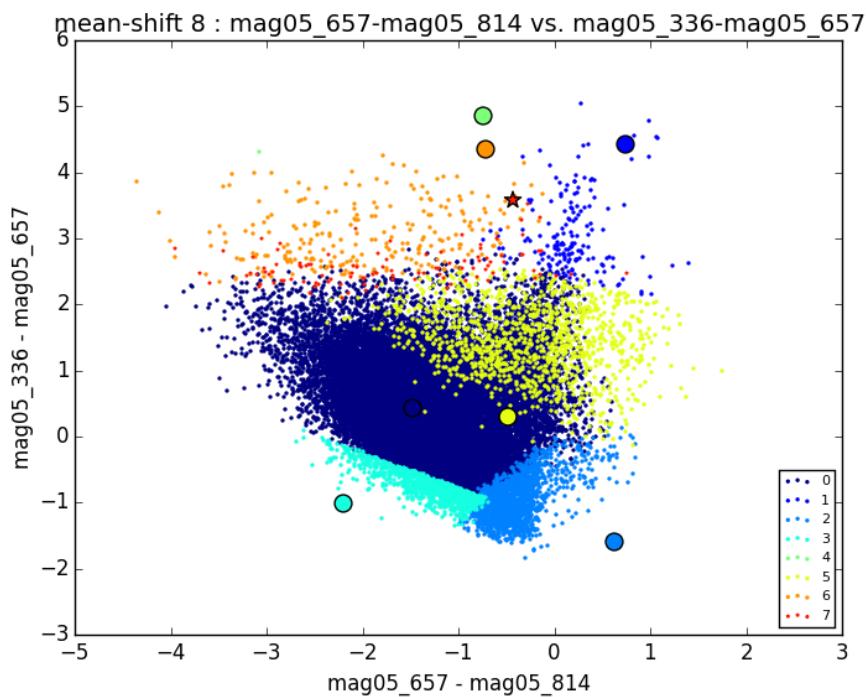


Figure 50: meanshift_3d_color_8cl_mag05_657-mag05_814vsmag05_336-mag05_657.png

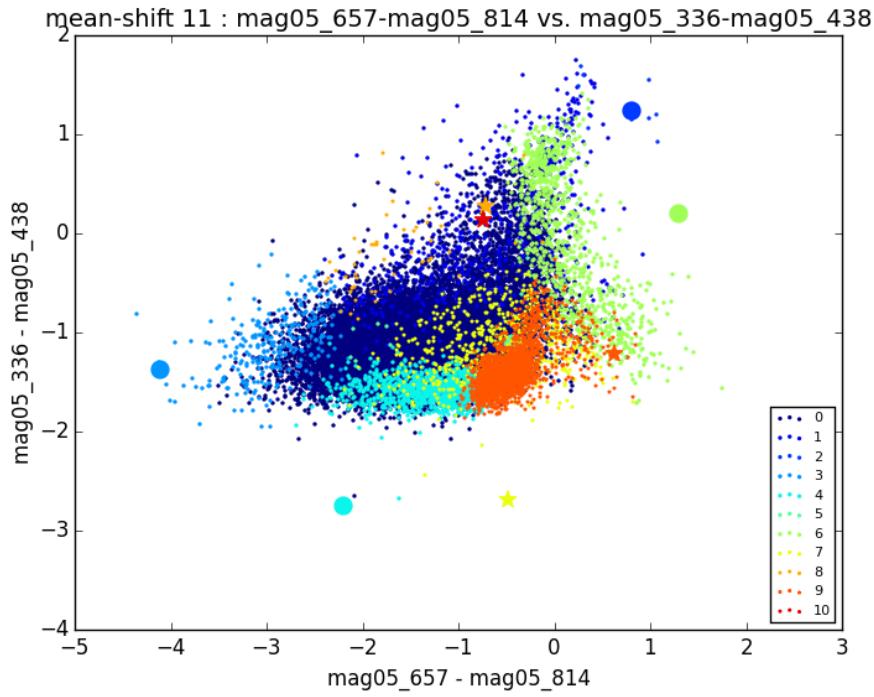


Figure 51: meanshift_base_color_11cl_mag05_657-mag05_814vsmag05_336-mag05_438.png

meanshift results, Ncl=11

Cluster	Nobj	tScore	cScore	rms	AvgDist	MaxDist	MinDist	Stddev	Cen1
1	23579	0.0671244144651	0.00450640214582	1.3618	1.2244	4.5884	0.0010	1.3408	-1.48860431909
2	527	0.0671244144651	0.0578190601634	2.2689	1.2803	3.3258	0.0155	1.6759	-0.076793103448
3	10	0.0671244144651	0.676564258171	3.2178	0.6778	1.2038	0.1749	1.6014	0.801125
4	265	0.0671244144651	0.432950145723	3.0456	0.9621	3.2736	0.0292	2.8691	-4.108
5	1130	0.0671244144651	0.341628552255	1.0395	0.6093	2.5514	0.0032	0.9565	-2.2
6	12	0.0671244144651	0.0126676543488	2.9576	1.1841	2.2803	0.1268	2.349	-0.435
7	916	0.0671244144651	0.253775999045	1.4115	1.1054	3.4556	0.0088	0.8489	1.3
8	617	0.0671244144651	0.242376743973	1.6531	0.9976	4.0947	0.0136	1.3104	-0.482
9	48	0.0671244144651	0.25541438469	3.1573	0.9045	2.3487	0.0394	2.5395	-0.715
10	1815	0.0671244144651	0.497276089095	0.7025	0.5366	2.2806	0.0014	0.6215	0.63
11	1	0.0671244144651	0.0	N/A	N/A	N/A	N/A	2.6088	-0.736

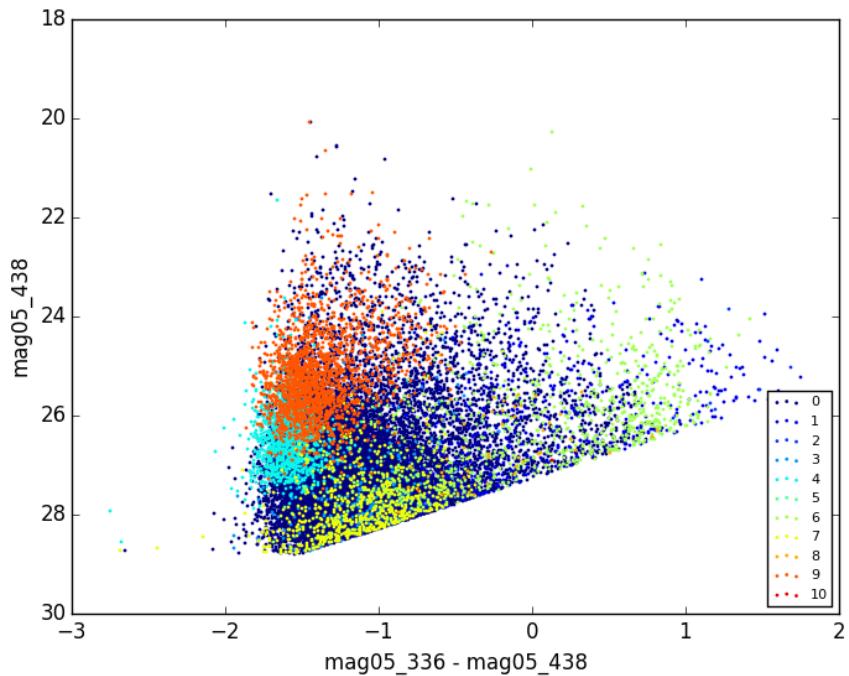


Figure 52: meanshift_CMD_11cl_mag05_336-mag05_438vsmag05_438.png

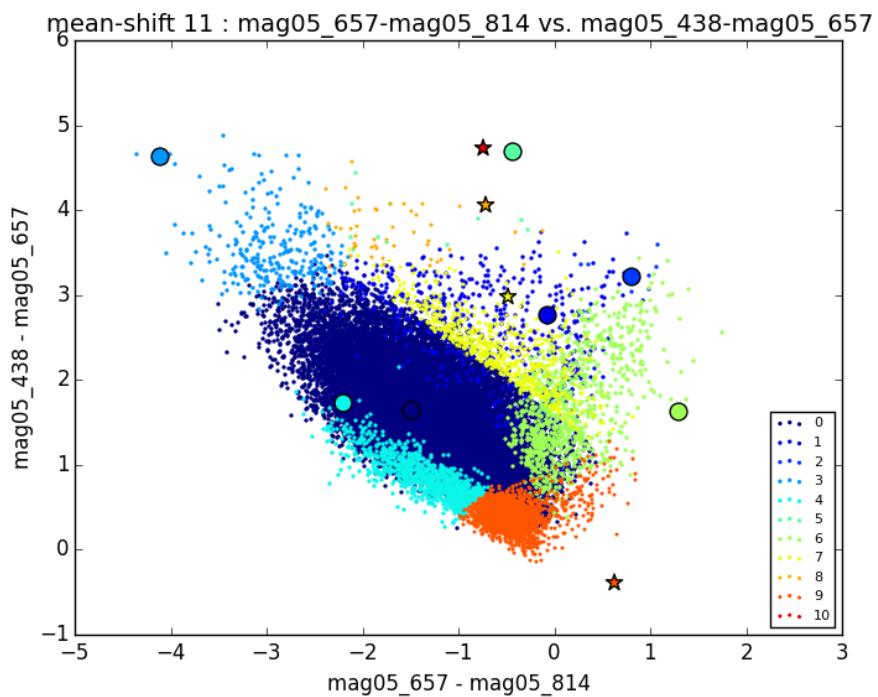


Figure 53: meanshift_3d_color_11cl_mag05_657-mag05_814vsmag05_438-mag05_657.png

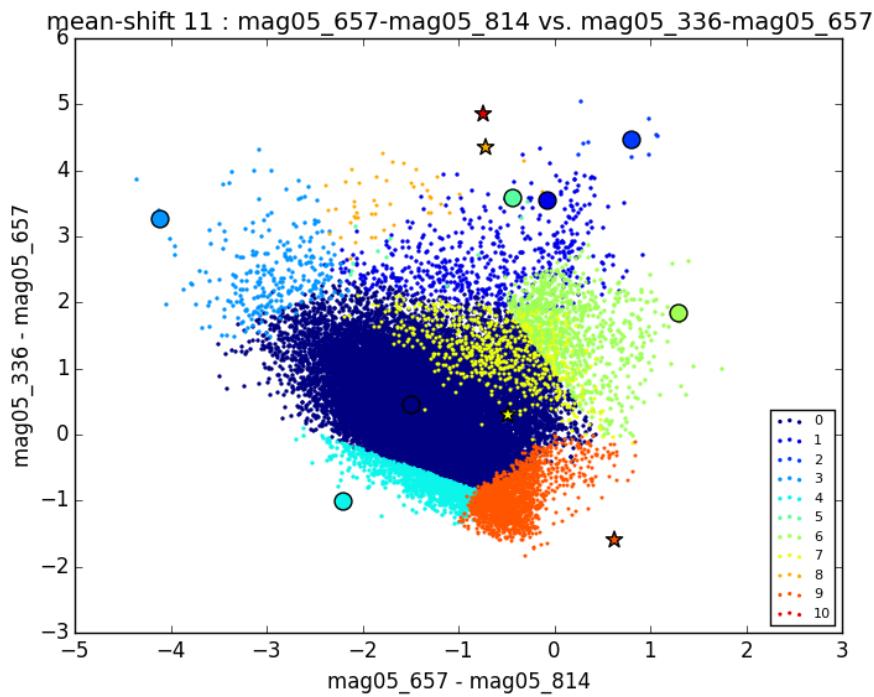


Figure 54: meanshift_3d_color_11cl_mag05_657-mag05_814vsmag05_336-mag05_657.png

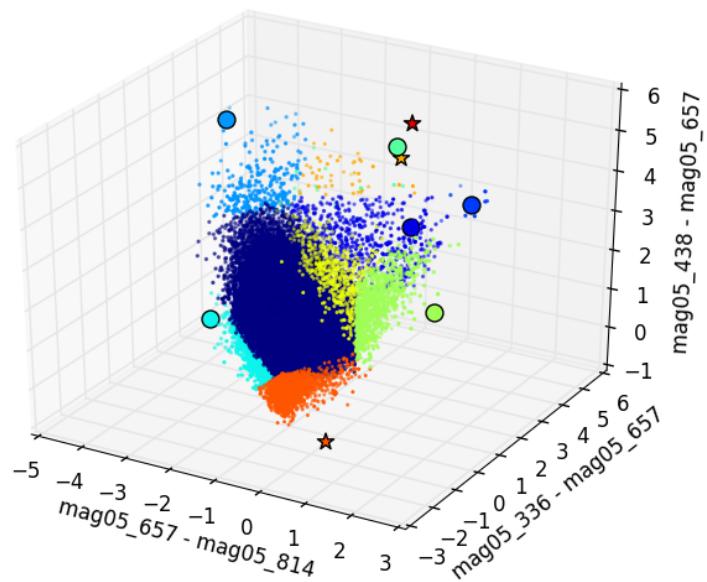


Figure 55: meanshift_3d_color_11cl_mag05_657-mag05_814vsmag05_336-mag05_657vsmag05_438-mag05_657.png

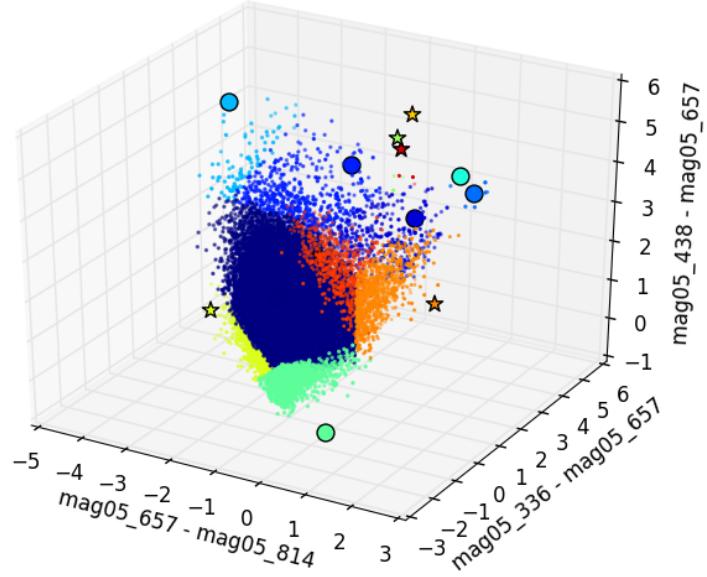


Figure 56: meanshift_3d_color_13cl_mag05_657-mag05_814vsmag05_336-mag05_657vsmag05_438-mag05_657.png

meanshift results, Ncl=13

Cluster	Nobj	tScore	cScore	rms	AvgDist	MaxDist	MinDist	Stdev	Cen1
1	23533	0.0646239207783	0.00264249967725	1.3536	1.2163	4.6709	0.0010	1.3335	-1.48665647217
2	342	0.0646239207783	0.151706421479	2.1874	1.1177	2.7094	0.0155	1.465	-0.04454545454545
3	525	0.0646239207783	0.182490240097	2.6727	1.0940	3.0287	0.0153	2.385	-1.48077272727
4	8	0.0646239207783	0.316175317924	3.2158	0.5756	1.1075	0.1909	1.5363	0.873
5	91	0.0646239207783	0.4022319483	3.3031	1.0219	3.1212	0.0356	3.146	-4.2375
6	1	0.0646239207783	0.0	N/A	N/A	N/A	N/A	1.9706	0.28
7	1798	0.0646239207783	0.500402210941	0.7028	0.5356	2.2806	0.0014	0.6211	0.63
8	4	0.0646239207783	0.115147253854	3.0222	0.7615	1.2492	0.2841	1.9101	-0.435
9	1071	0.0646239207783	0.340684272062	1.0430	0.6113	2.5514	0.0032	0.9585	-2.2
10	1	0.0646239207783	0.0	N/A	N/A	N/A	N/A	2.6088	-0.736
11	930	0.0646239207783	0.20929032929	1.4168	1.1080	3.4556	0.0088	0.8543	1.3
12	612	0.0646239207783	0.261276525628	1.6276	0.9557	3.6668	0.0136	1.2792	-0.482
13	4	0.0646239207783	0.0791255943767	3.1538	0.7003	0.9493	0.2882	2.0105	-0.715

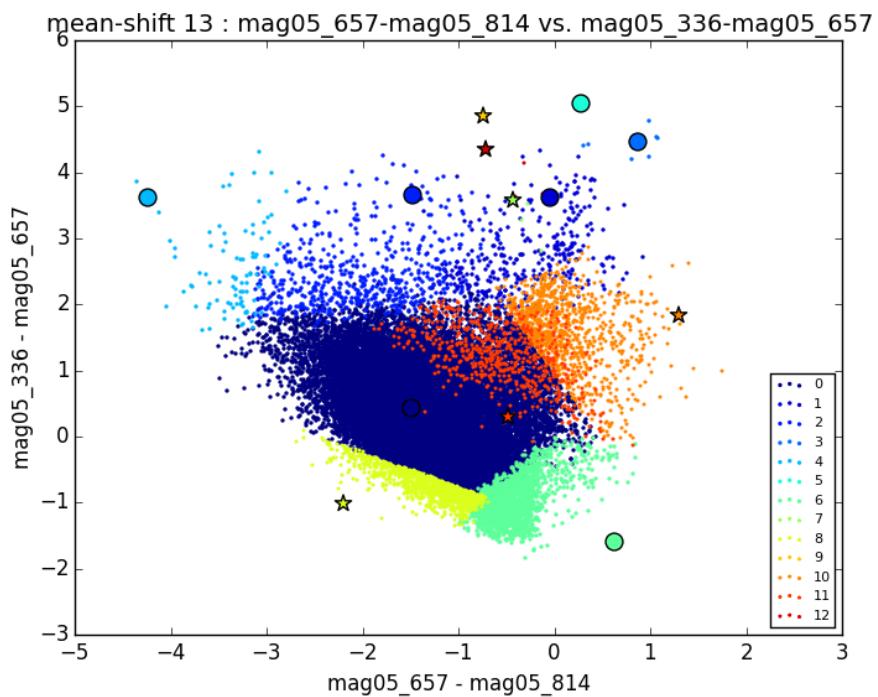


Figure 57: meanshift_3d_color_13cl_mag05_657-mag05_814vsmag05_336-mag05_657.png

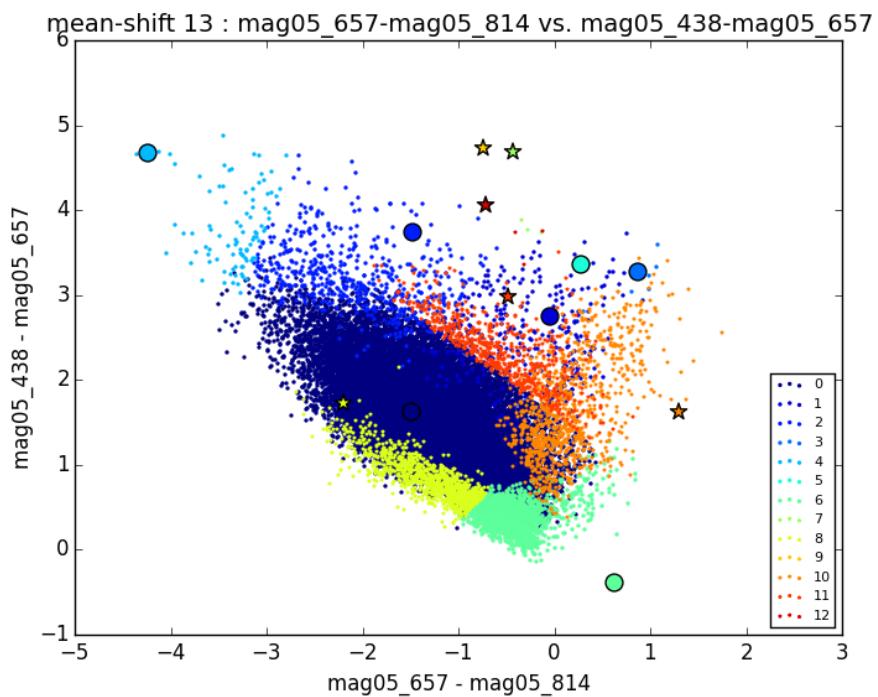


Figure 58: meanshift_3d_color_13cl_mag05_657-mag05_814vsmag05_438-mag05_657.png

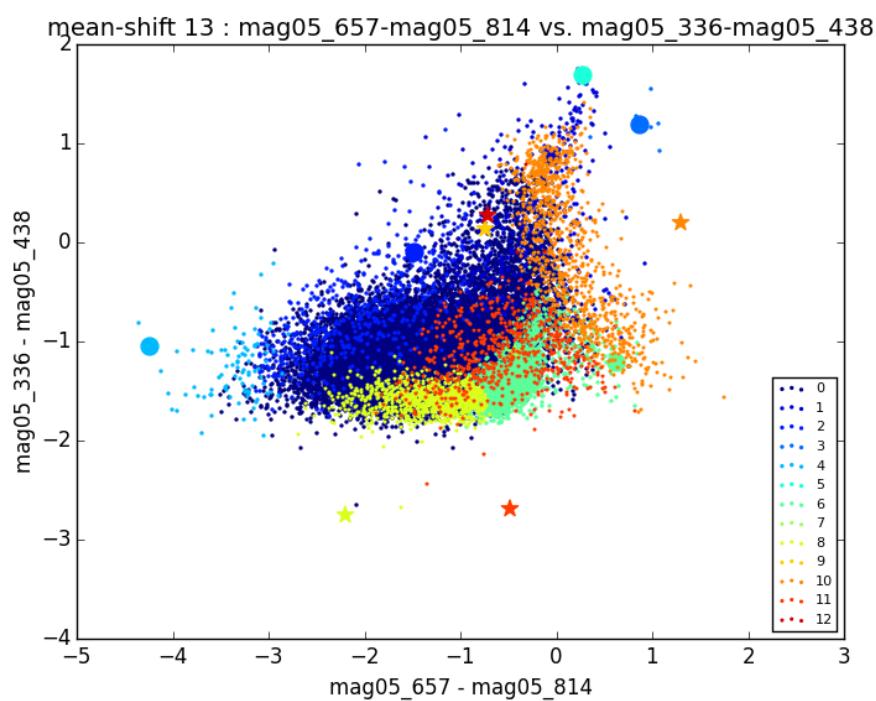


Figure 59: meanshift_base_color_13cl_mag05_657-mag05_814vsmag05_336-mag05_438.png

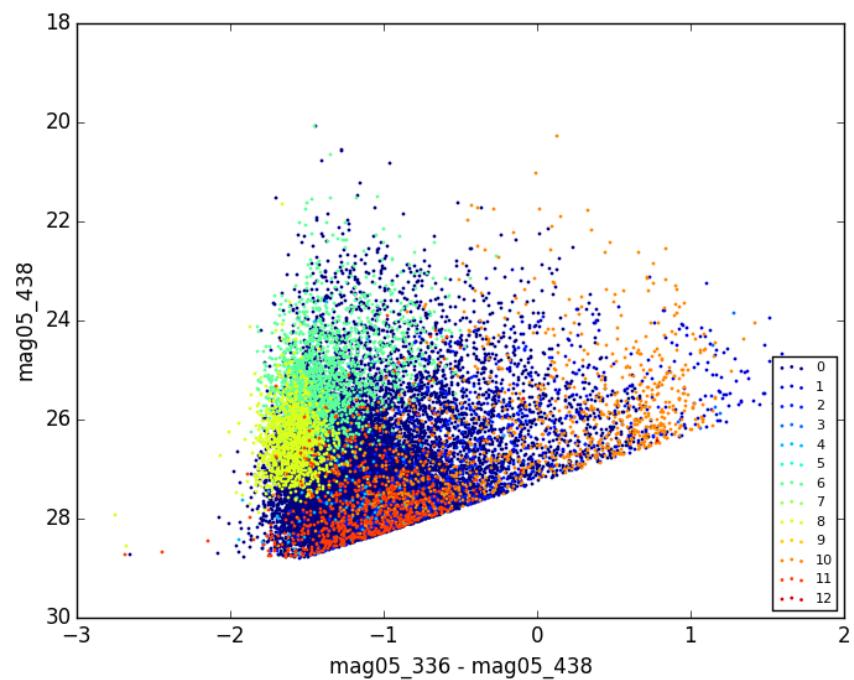


Figure 60: meanshift_CMD_13cl_mag05_336-mag05_438vsmag05_438.png