

K-means results

Nclust	inertia	score	TotObj	N1	N2	N3	N4	N5	N6	N7	N8
3	3349.32609229	0.373560073196	13147	7104	4769	1274	0	0	0	0	0
4	2562.80798794	0.404954218415	13147	7384	3593	1248	922	0	0	0	0
5	2097.70829716	0.334210722064	13147	4907	4600	2541	656	443	0	0	0
6	1806.12334999	0.314341463877	13147	4939	3084	2862	1513	426	323	0	0
7	1602.78962805	0.321189252775	13147	4293	2559	2497	1667	1436	421	274	0
8	1443.93194598	0.304103101861	13147	3713	2822	2024	1495	1463	1054	343	233

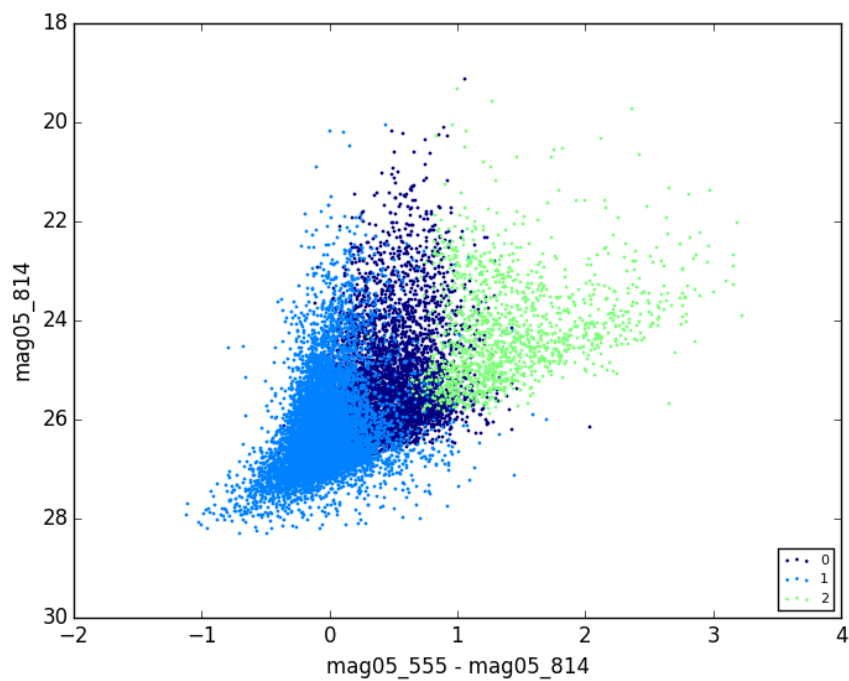


Figure 1: kmeans_CMD_3cl_mag05_555-mag05_814vsmag05_814.png

kmeans results, Ncl=3

Cluster	Nobj	tScore	cScore	rms	AvgDist	MaxDist	MinDist	Stdev	Cen1	
1	4769	0.373560073196	0.365661982444	0.3786	0.5204	2.7159	0.0024	0.3324	0.383479136087	-0.0
2	7104	0.373560073196	0.390798218914	0.5025	0.5433	5.5644	0.0010	0.4788	0.386853040541	-0.0
3	1274	0.373560073196	0.307002936321	1.1018	0.9308	5.1795	0.0032	0.74	0.845956828885	0.0

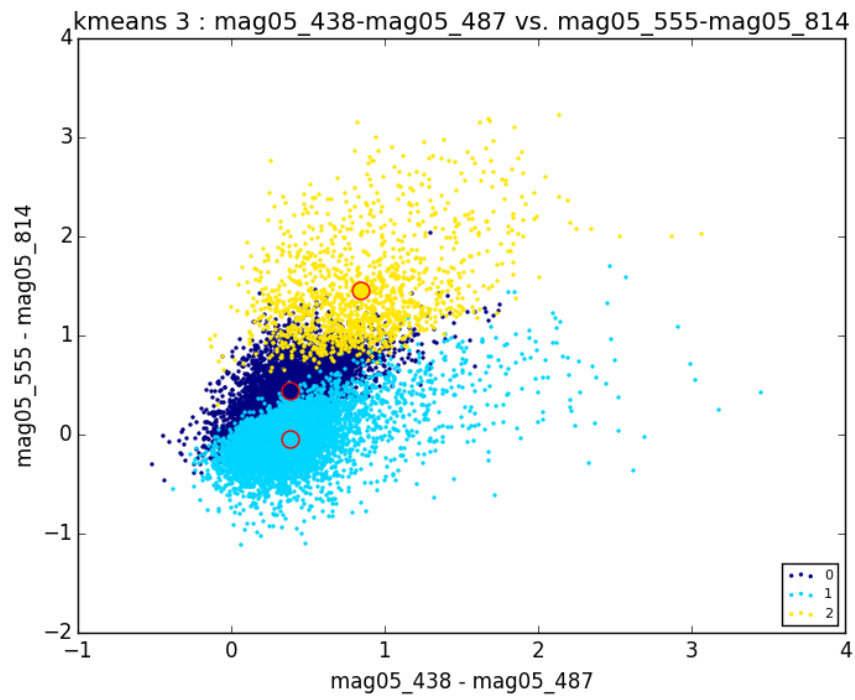


Figure 2: kmeans_base_color_3cl_mag05_438-mag05_487vsmag05_555-mag05_814.png

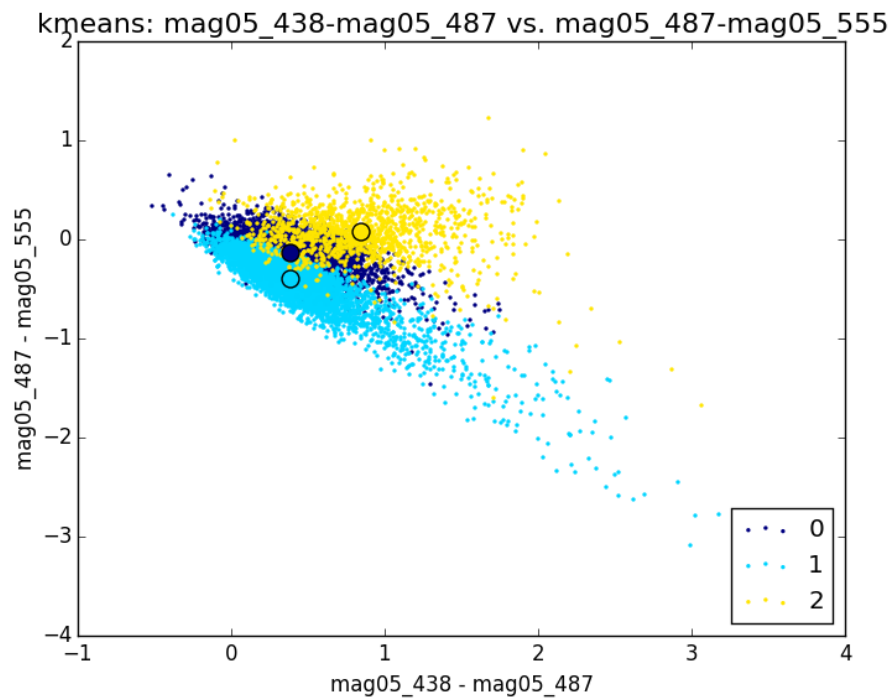


Figure 3: kmeans_3d_3cl_mag05_438-mag05_487vsmag05_487-mag05_555.png

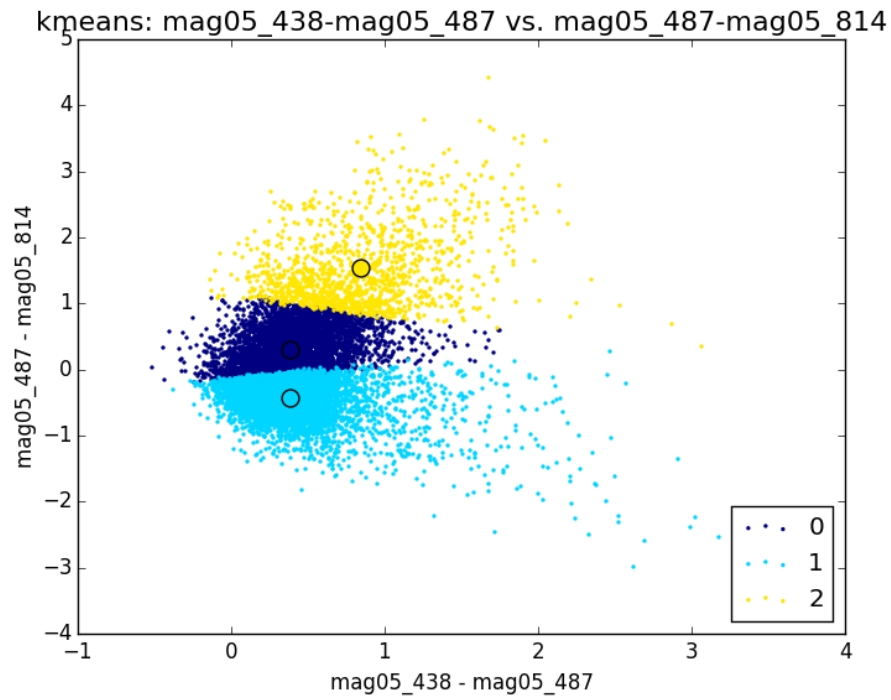


Figure 4: kmeans_3d_3cl_mag05_438-mag05_487vsmag05_487-mag05_814.png

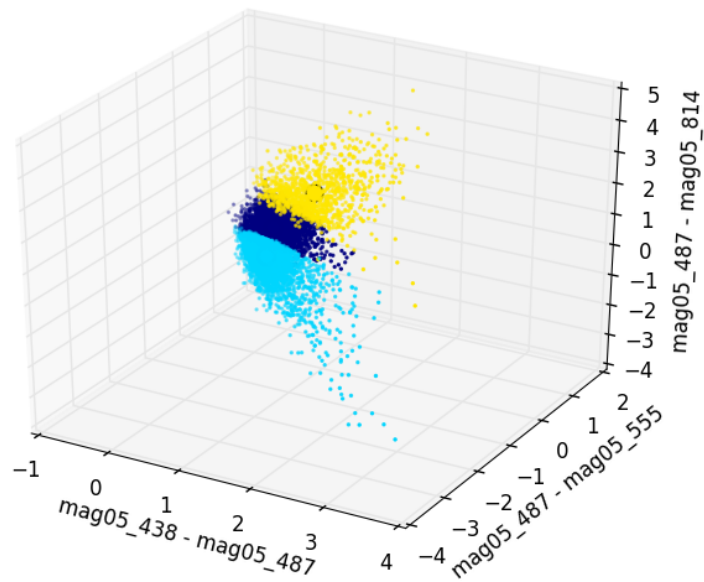


Figure 5: kmeans_3d_color_3cl_mag05_438-mag05_487vsmag05_487-mag05_555vsmag05_487-mag05_814.png

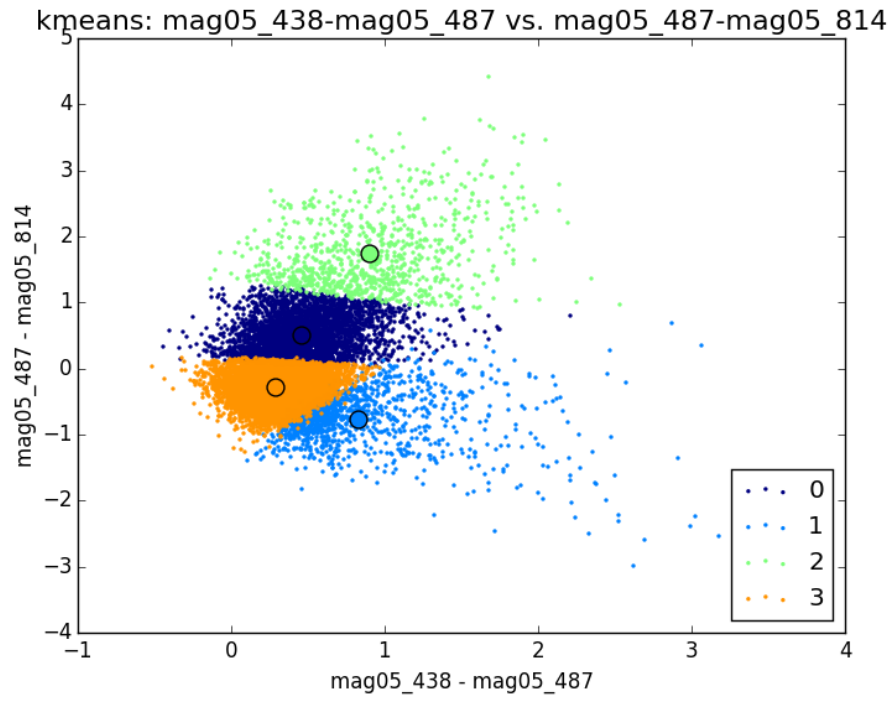


Figure 6: kmeans_3d_4cl_mag05_438-mag05_487vsmag05_487-mag05_814.png

kmeans results, Ncl=4

Cluster	Nobj	tScore	cScore	rms	AvgDist	MaxDist	MinDist	Stdev	Cen1	
1	3593	0.404954218415	0.351638303213	0.4658	0.5340	3.2871	0.0028	0.3711	0.459107152797	-0.
2	1248	0.404954218415	0.167416455563	0.9024	0.7984	4.4902	0.0017	0.8679	0.832721153846	-0.
3	922	0.404954218415	0.309289138557	1.2108	0.9343	4.3872	0.0071	0.7884	0.906444685466	0.
4	7384	0.404954218415	0.48298975674	0.3445	0.4057	1.7235	0.0010	0.33	0.288490655471	-0.

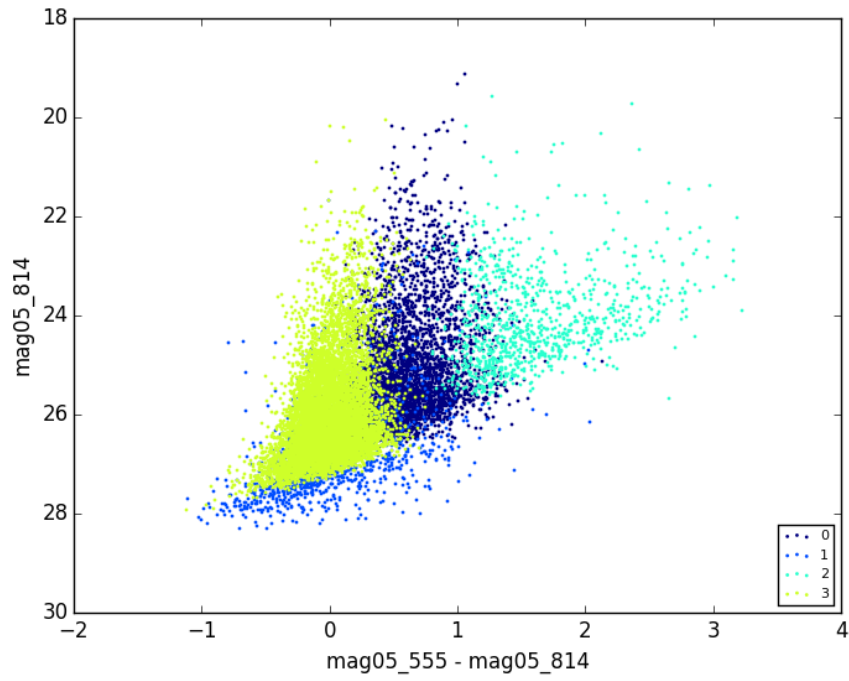


Figure 7: kmeans_CMD_4cl_mag05_555-mag05_814vsmag05_814.png

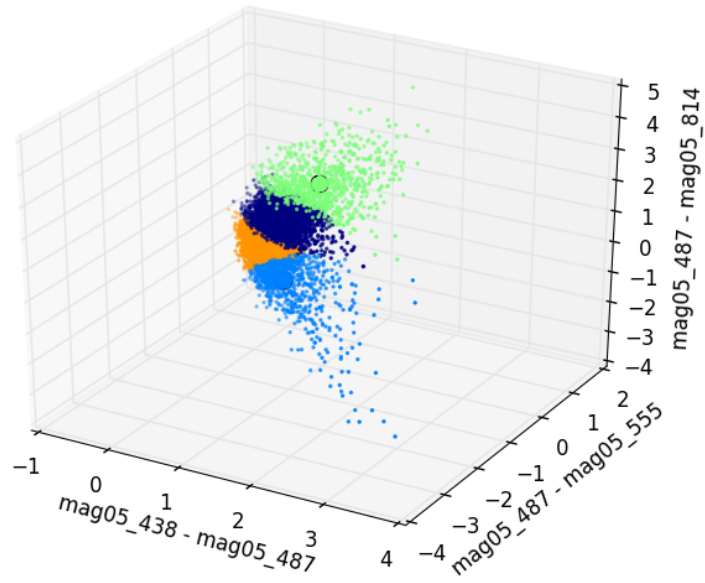


Figure 8: kmeans_3d_color_4cl_mag05_438-mag05_487vsmag05_487-mag05_555vsmag05_487-mag05_814.png

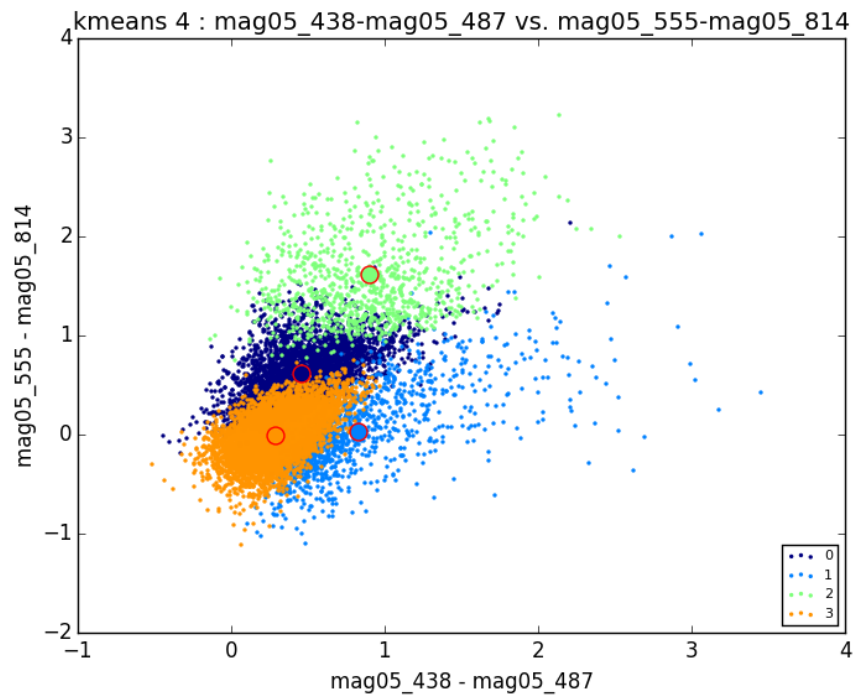


Figure 9: kmeans_base_color_4cl_mag05_438-mag05_487vsmag05_555-mag05_814.png

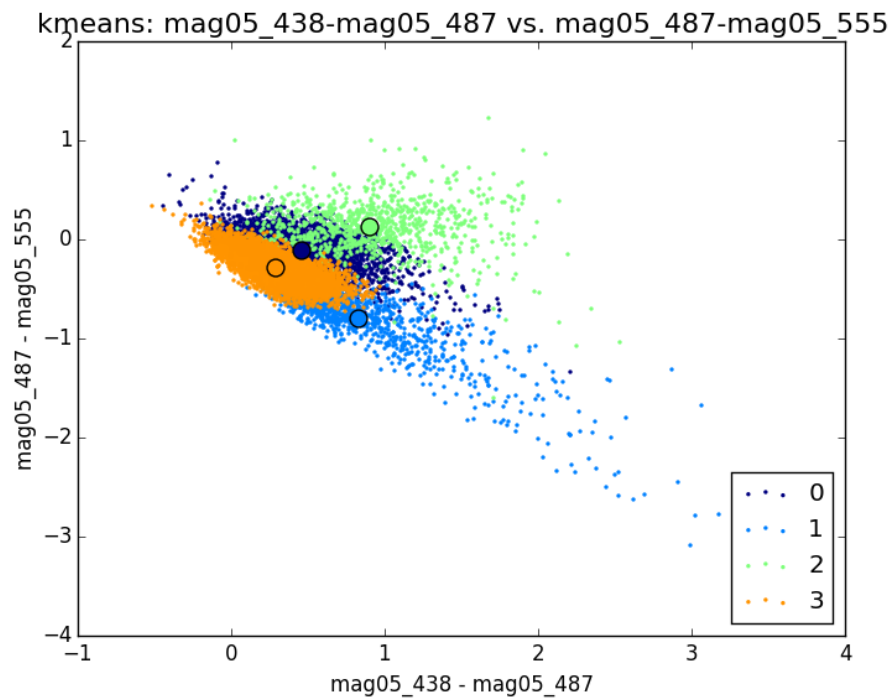


Figure 10: kmeans_3d_4cl_mag05_438-mag05_487vsmag05_487-mag05_555.png

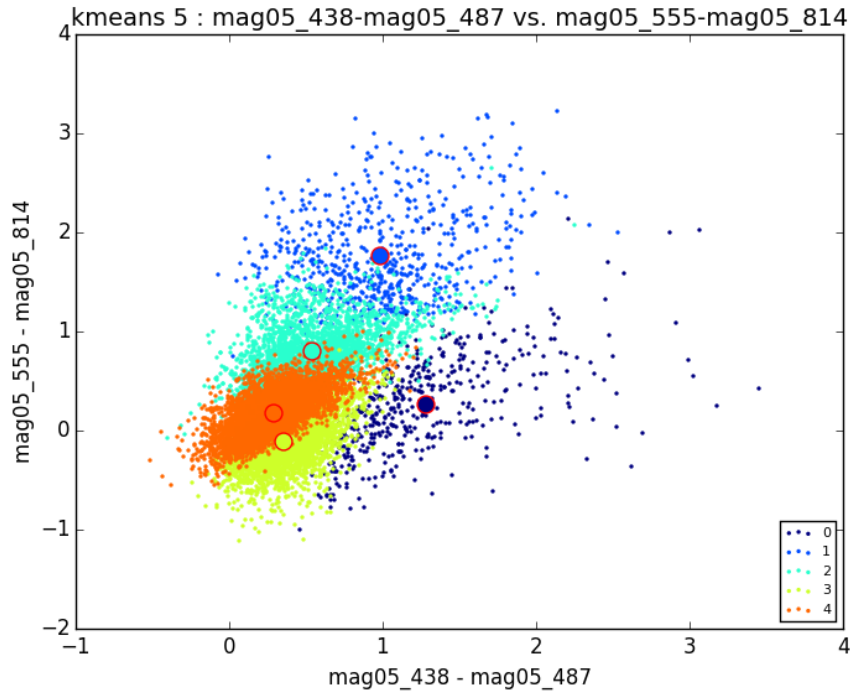


Figure 11: kmeans_base_color_5cl_mag05_438-mag05_487vsmag05_555-mag05_814.png

kmeans results, Ncl=5

Cluster	Nobj	tScore	cScore	rms	AvgDist	MaxDist	MinDist	Stdev	Cen1	
1	443	0.334210722064	0.203944189147	1.2139	1.0183	4.2026	0.0135	1.1906	1.28623250564	-1
2	656	0.334210722064	0.319612162069	1.3280	0.9208	4.2113	0.0180	0.8368	0.984088414634	0.
3	2541	0.334210722064	0.321463422518	0.5793	0.5527	3.1937	0.0028	0.4253	0.542324281779	-0.
4	4600	0.334210722064	0.363082901678	0.4672	0.3908	1.6453	0.0014	0.4284	0.358743478261	-0
5	4907	0.334210722064	0.327457836669	0.2700	0.3899	2.0243	0.0010	0.2691	0.287576115753	-0

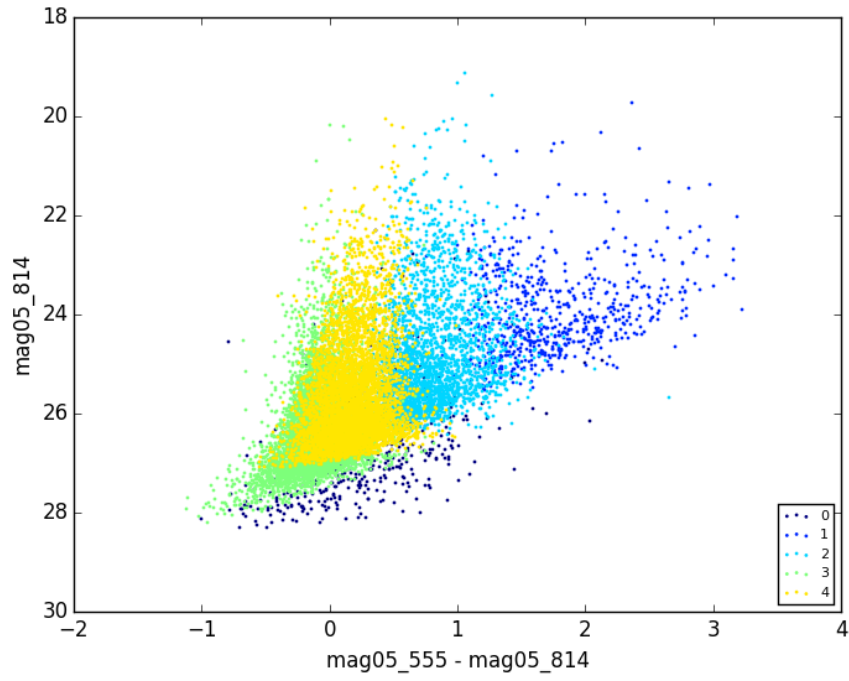


Figure 12: kmeans_CMD_5cl_mag05_555-mag05_814vsmag05_814.png

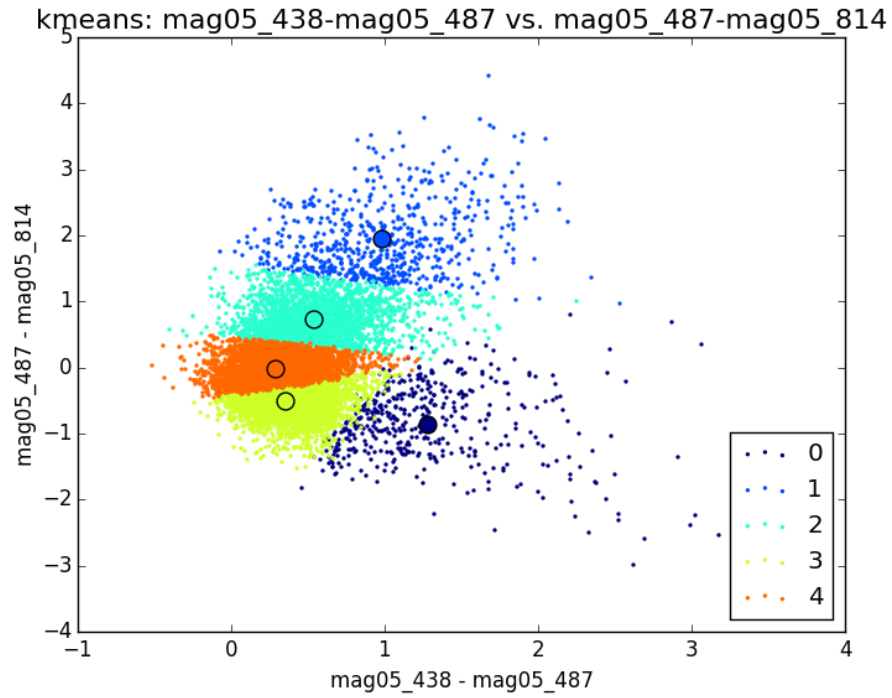


Figure 13: kmeans_3d_5cl_mag05_438-mag05_487vsmag05_487-mag05_814.png

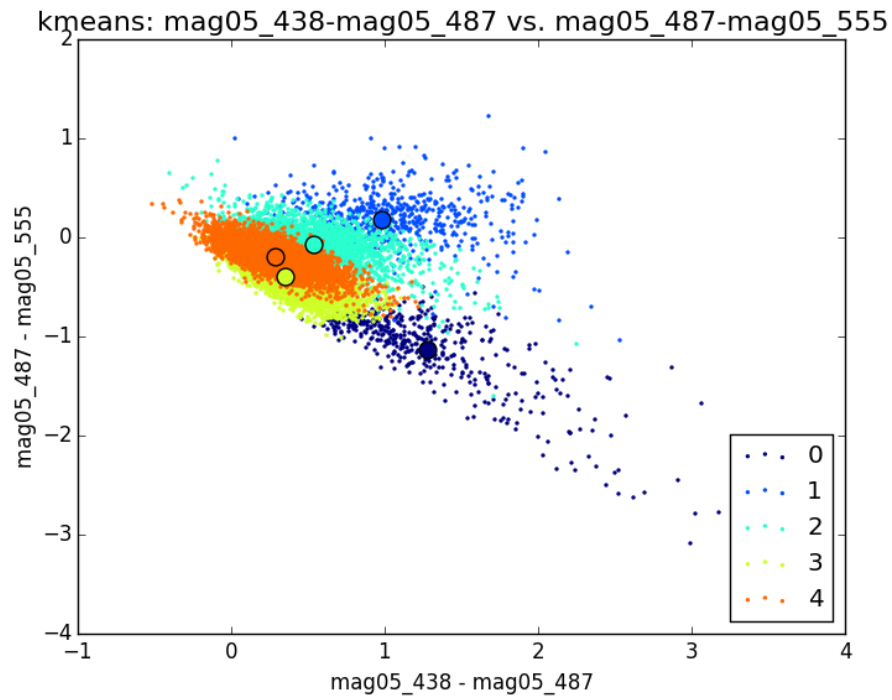


Figure 14: kmeans_3d_5cl_mag05_438-mag05_487vsmag05_487-mag05_555.png

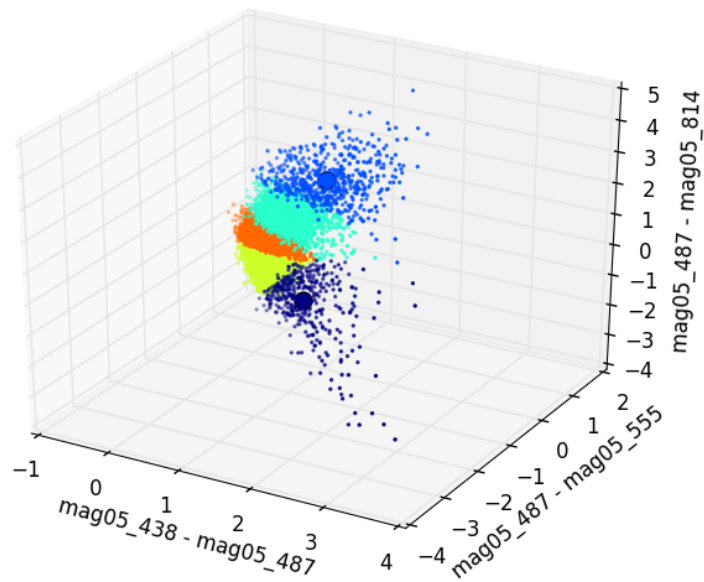


Figure 15: kmeans_3d_color_5cl_mag05_438-mag05_487vsmag05_487-mag05_555vsmag05_487-mag05_814.png

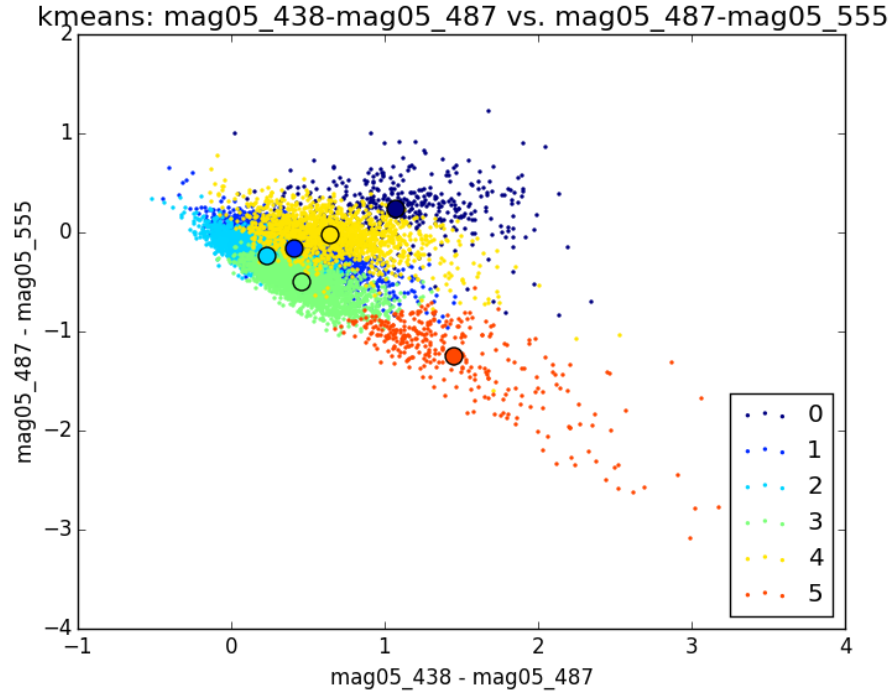


Figure 16: kmeans_3d_6cl_mag05_438-mag05_487vsmag05_487-mag05_555.png

kmeans results, Ncl=6

Cluster	Nobj	tScore	cScore	rms	AvgDist	MaxDist	MinDist	Stdev	Cen1	
1	426	0.314341463877	0.343365855424	1.4768	0.8895	3.6652	0.0230	0.9008	1.07120422535	0.
2	3084	0.314341463877	0.279584754978	0.3680	0.4325	2.4278	0.0030	0.3179	0.41185538262	-0.
3	4939	0.314341463877	0.370856202515	0.2791	0.3266	1.5026	0.0010	0.2676	0.236170479854	-0.
4	2862	0.314341463877	0.273416768375	0.5574	0.4154	1.9897	0.0017	0.515	0.458705450734	-0.
5	1513	0.314341463877	0.291267409256	0.7450	0.5842	3.1922	0.0028	0.5073	0.648490416391	-0.
6	323	0.314341463877	0.214454555158	1.3207	1.0559	4.1676	0.0135	1.3006	1.44843034056	-1.

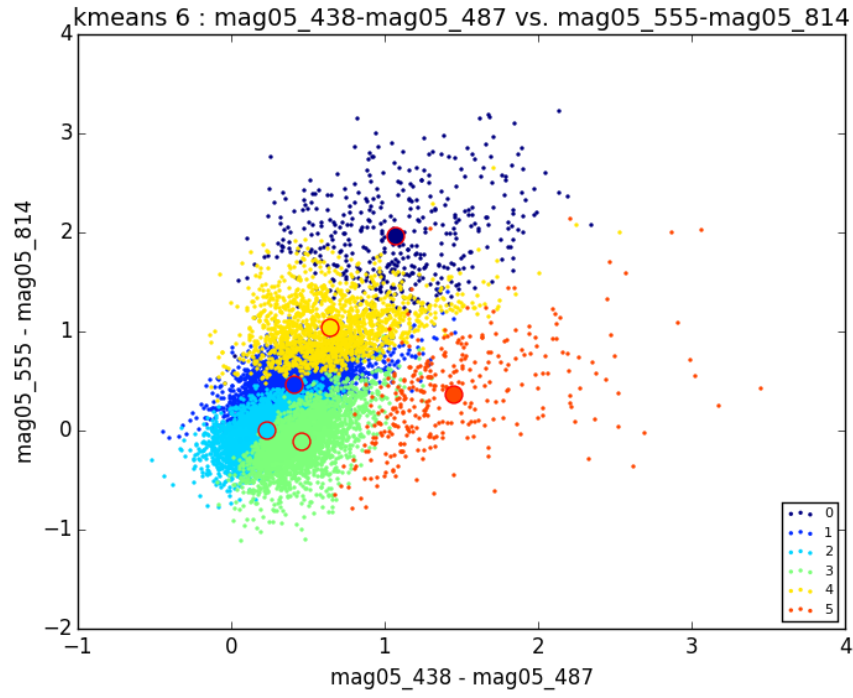


Figure 17: kmeans_base_color_6cl_mag05_438-mag05_487vsmag05_555-mag05_814.png

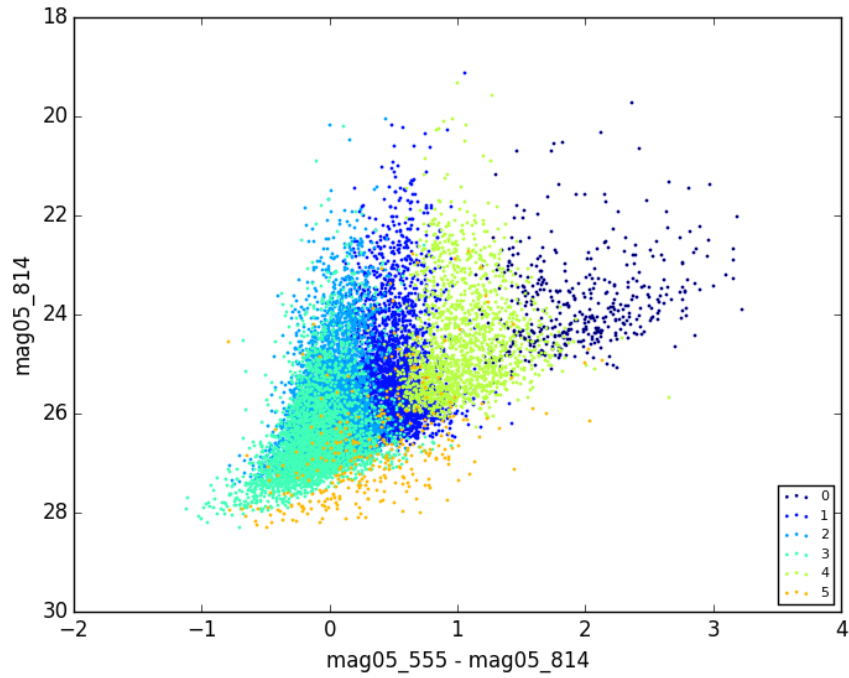


Figure 18: kmeans_CMD_6cl_mag05_555-mag05_814vsmag05_814.png

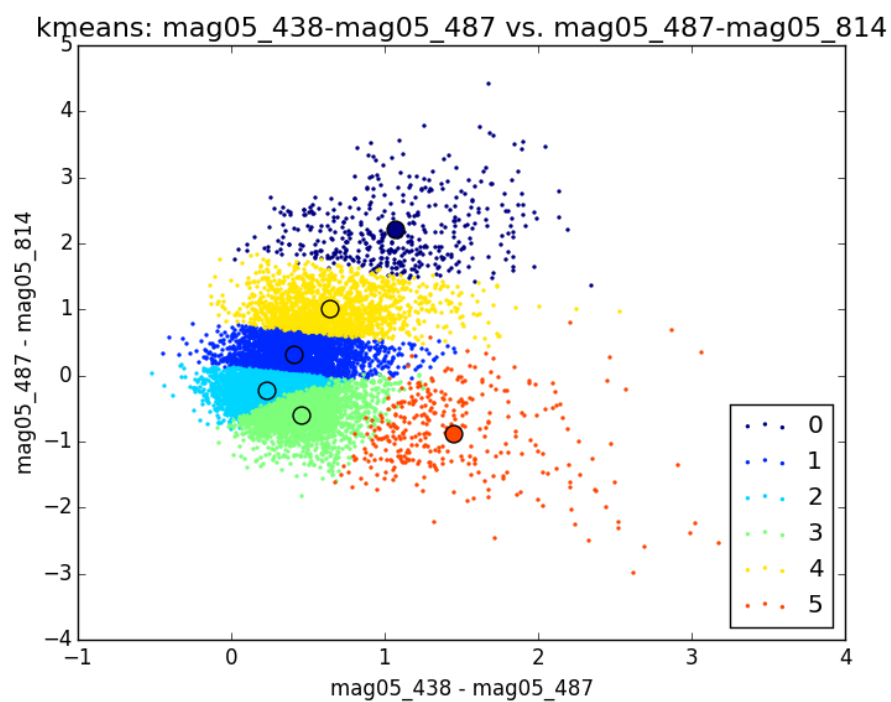


Figure 19: kmeans_3d_6cl_mag05_438-mag05_487vsmag05_487-mag05_814.png

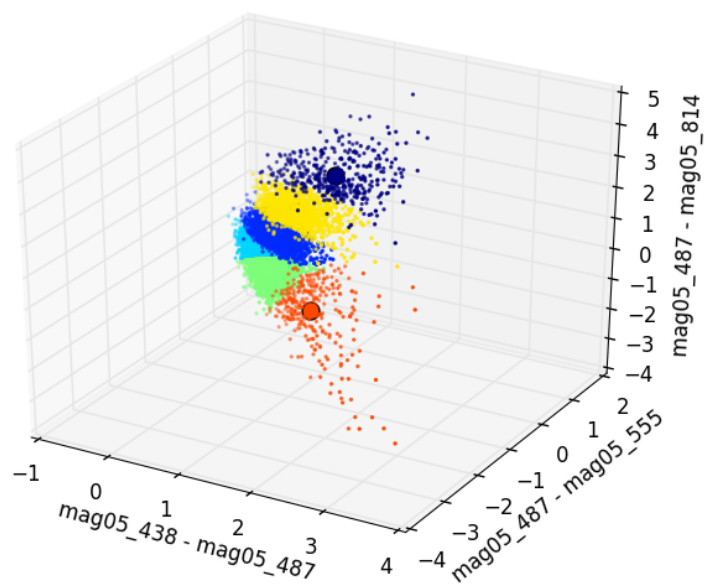


Figure 20: kmeans_3d_color_6cl_mag05_438-mag05_487vsmag05_487-mag05_555vsmag05_487-mag05_814.png

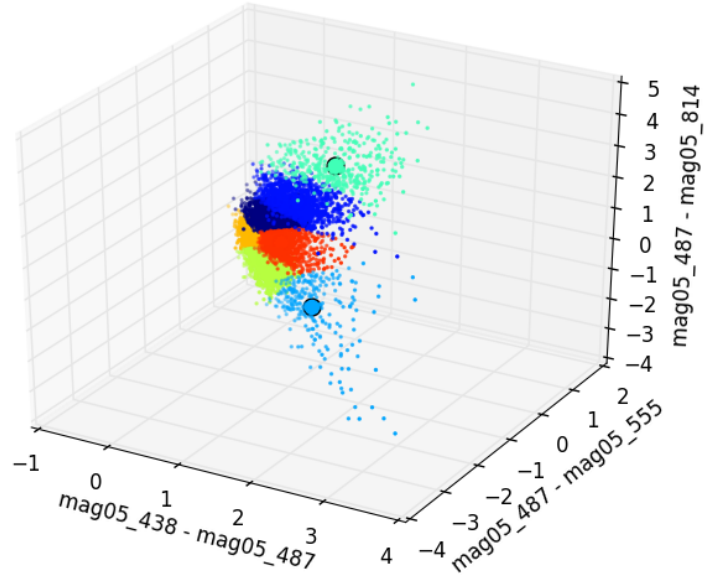


Figure 21: kmeans_3d_color_7cl_mag05_438-mag05_487vsmag05_487-mag05_555vsmag05_487-mag05_814.png

kmeans results, Ncl=7

Cluster	Nobj	tScore	cScore	rms	AvgDist	MaxDist	MinDist	Stddev	Cen1	
1	2497	0.321189252775	0.33951673218	0.3380	0.3766	1.6087	0.0028	0.271	0.340675210252	-0
2	1436	0.321189252775	0.269552622929	0.7562	0.5798	3.1922	0.0032	0.5118	0.661782033426	-0
3	274	0.321189252775	0.255867144324	1.3795	1.0357	4.0285	0.0135	1.3518	1.48939416058	-1
4	421	0.321189252775	0.337595074111	1.4809	0.8883	3.6652	0.0230	0.9025	1.07504750594	0
5	2559	0.321189252775	0.314312307576	0.5556	0.3769	1.5645	0.0017	0.502	0.419655334115	-0
6	4293	0.321189252775	0.37903338534	0.2615	0.3004	1.2778	0.0010	0.2463	0.202110878174	-0
7	1667	0.321189252775	0.20640288984	0.4832	0.4088	1.6863	0.0014	0.4805	0.630792441512	-0

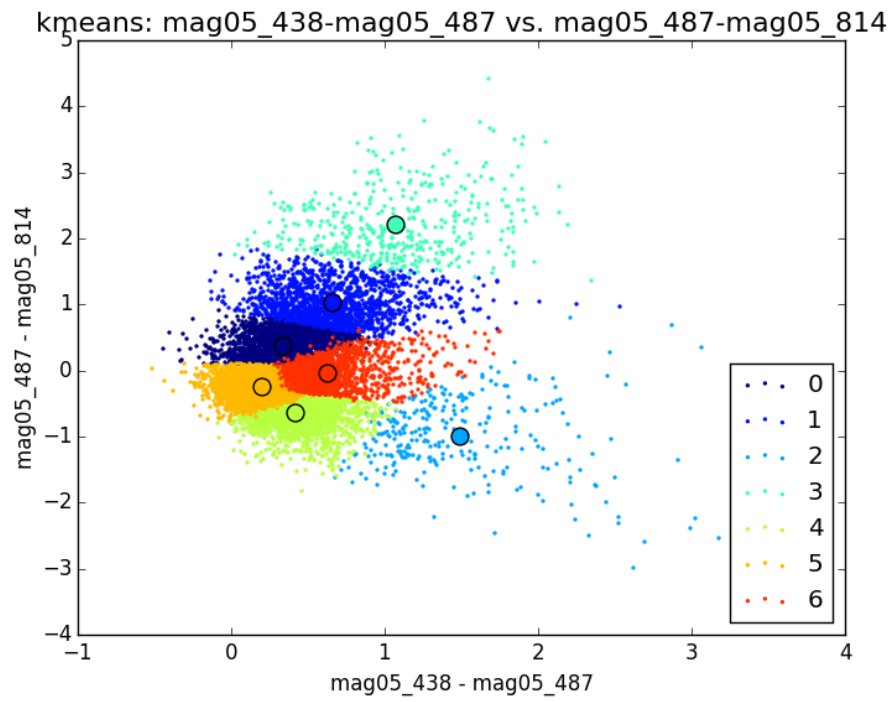


Figure 22: kmeans_3d_7cl_mag05_438-mag05_487vsmag05_487-mag05_814.png

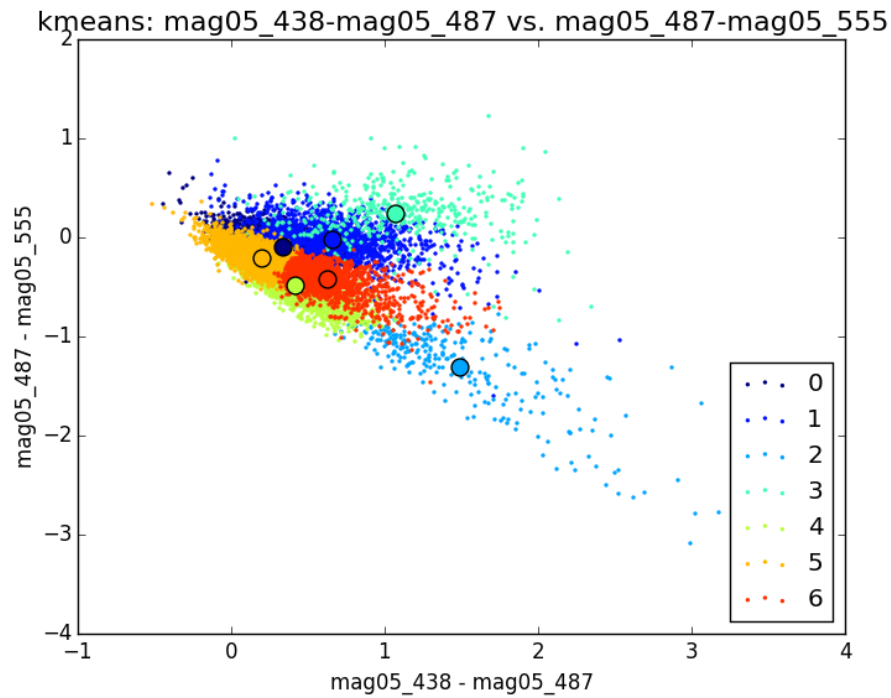


Figure 23: kmeans_3d_7cl_mag05_438-mag05_487vsmag05_487-mag05_555.png

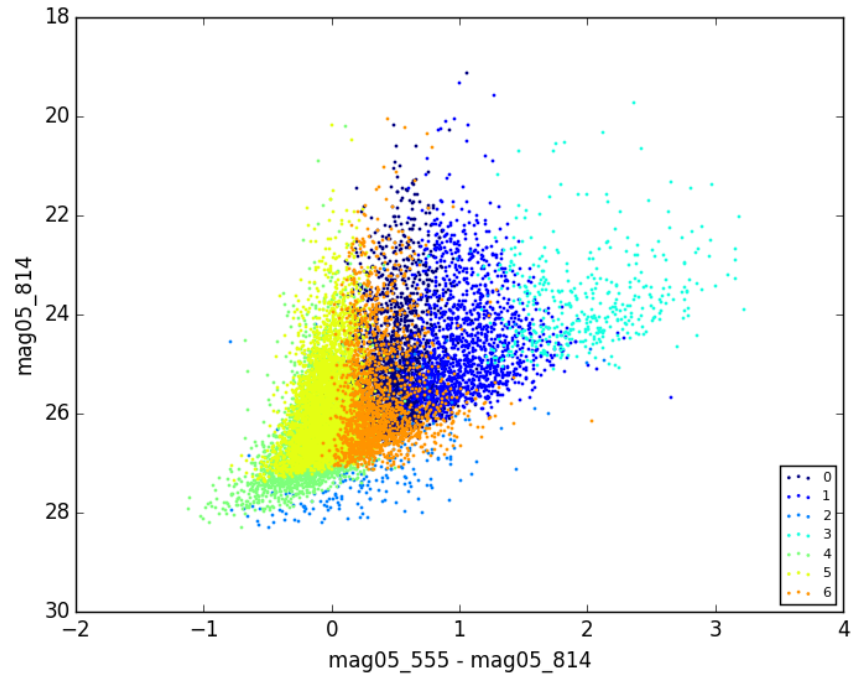


Figure 24: kmeans_CMD_7cl_mag05_555-mag05_814vsmag05_814.png

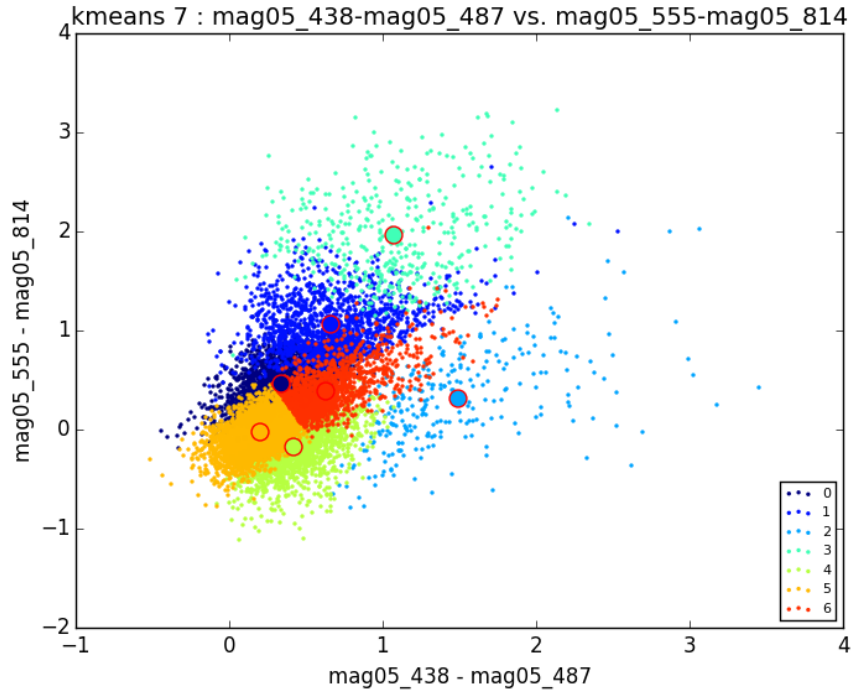


Figure 25: kmeans_base_color_7cl_mag05_438-mag05_487vsmag05_555-mag05_814.png

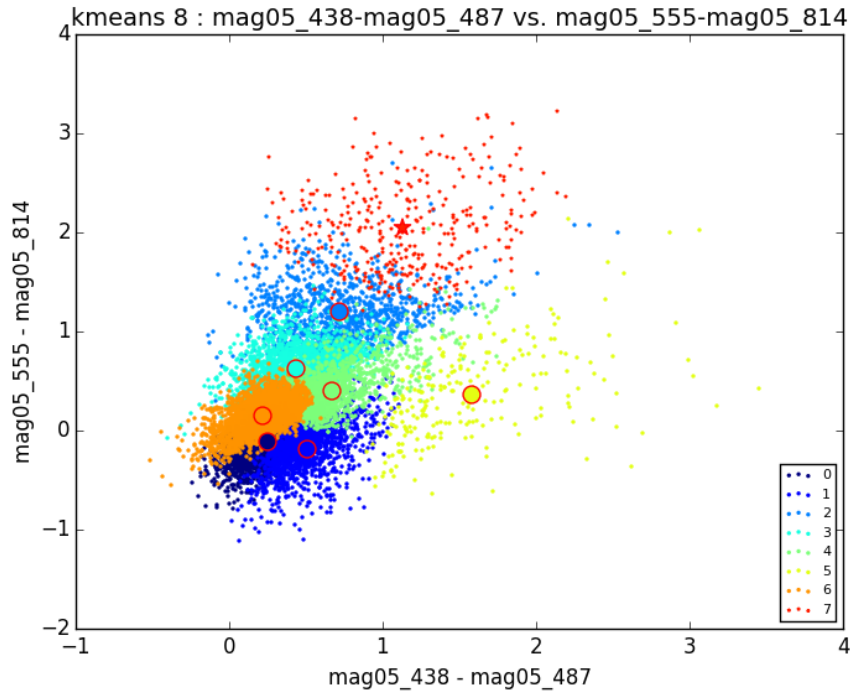


Figure 26: kmeans_base_color_8cl_mag05_438-mag05_487vsmag05_555-mag05_814.png

kmeans results, Ncl=8

Cluster	Nobj	tScore	cScore	rms	AvgDist	MaxDist	MinDist	Stdev	Cen1	
1	3713	0.304103101861	0.372106949475	0.3455	0.2724	0.9976	0.0010	0.3109	0.248555346081	-0.0000
2	1495	0.304103101861	0.27274157118	0.6433	0.3962	1.5501	0.0017	0.5836	0.504959866221	-0.0000
3	1054	0.304103101861	0.230459757781	0.8531	0.6106	3.3244	0.0032	0.5652	0.721717267552	0.0000
4	2024	0.304103101861	0.318762358439	0.4429	0.3970	1.9176	0.0028	0.3272	0.435733695652	-0.0000
5	1463	0.304103101861	0.18751611496	0.5076	0.4211	1.6713	0.0014	0.5048	0.665443609023	-0.0000
6	233	0.304103101861	0.242756092725	1.4377	1.0481	4.0285	0.0135	1.4116	1.57773390558	-0.0000
7	2822	0.304103101861	0.309060122162	0.2043	0.3050	1.1859	0.0017	0.2029	0.215067682495	0.0000
8	343	0.304103101861	0.342612883793	1.5476	0.8624	3.3599	0.0230	0.9268	1.1261574344	0.0000

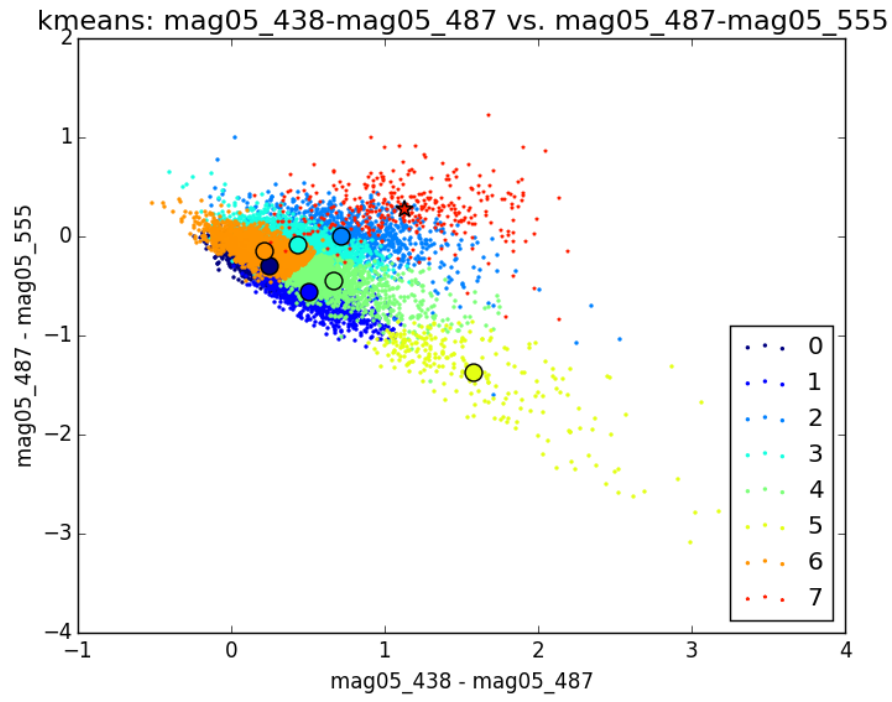


Figure 27: kmeans_3d_8cl_mag05_438-mag05_487vsmag05_487-mag05_555.png

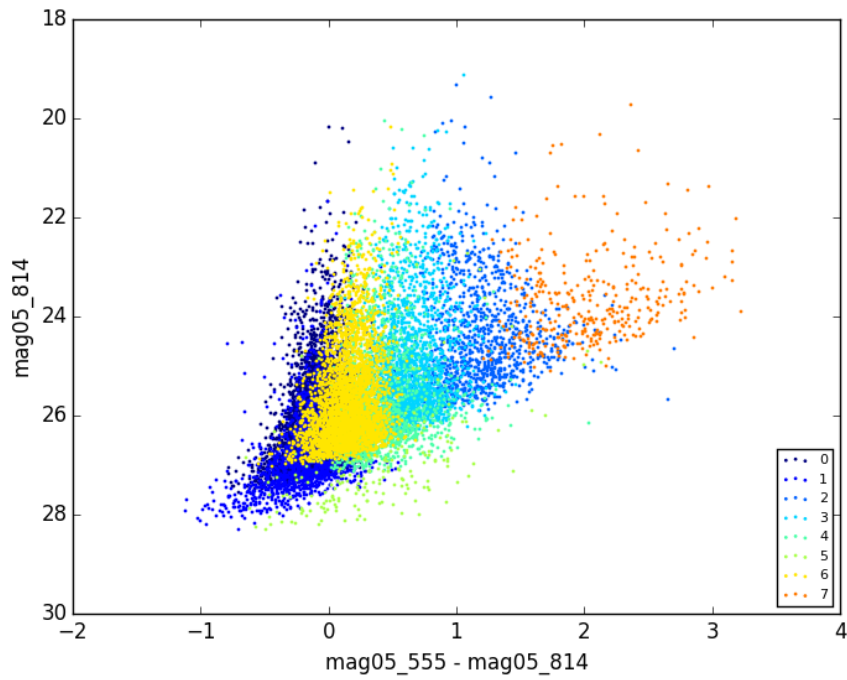


Figure 28: kmeans_CMD_8cl_mag05_555-mag05_814vsmag05_814.png

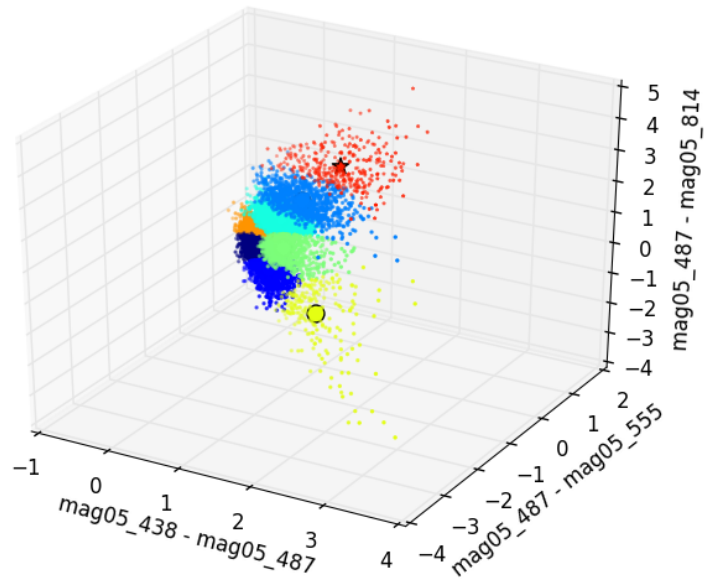


Figure 29: kmeans_3d_color_8cl_mag05_438-mag05_487vsmag05_487-mag05_555vsmag05_487-mag05_814.png

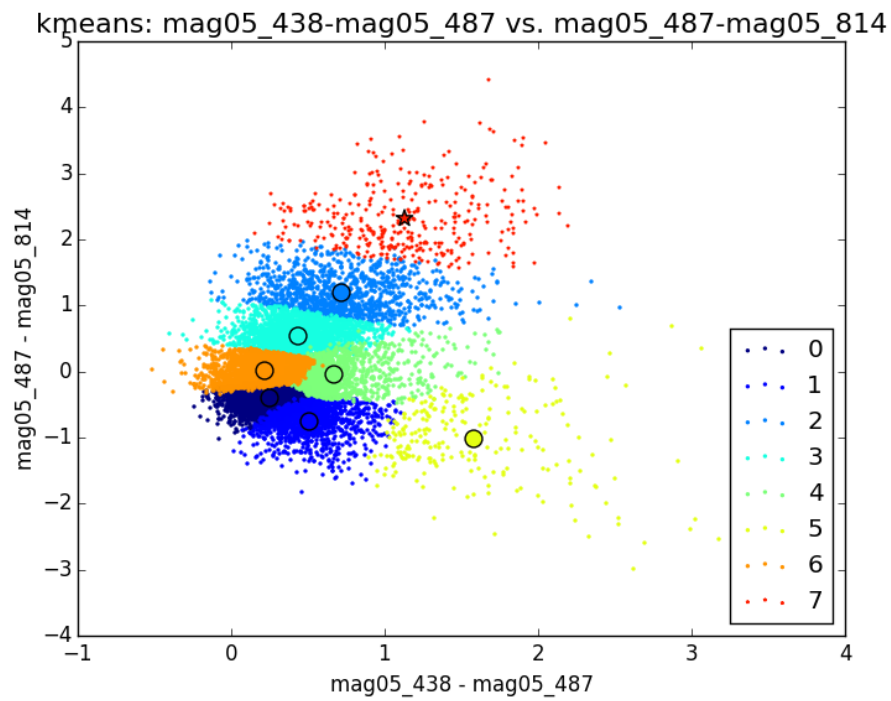


Figure 30: kmeans_3d_8cl_mag05_438-mag05_487vsmag05_487-mag05_814.png

Meanshift results

Bandw	Nclust	score	TotObj	N1	N2	N3	N4	N5	N6	N7	N8	N9	N10
0.5000	13	0.449105654949	13147	11849	847	98	96	89	64	45	38	12	4
0.5500	10	0.466277447292	13147	11886	858	147	88	78	29	28	27	4	2
0.6500	6	0.466936668027	13147	12454	456	96	64	45	32	0	0	0	0
0.7000	4	0.560071988436	13147	12705	221	160	61	0	0	0	0	0	0
0.7500	3	0.596968117107	13147	12774	203	170	0	0	0	0	0	0	0
0.5700	7	0.418526426698	13147	12337	344	312	51	40	32	31	0	0	0

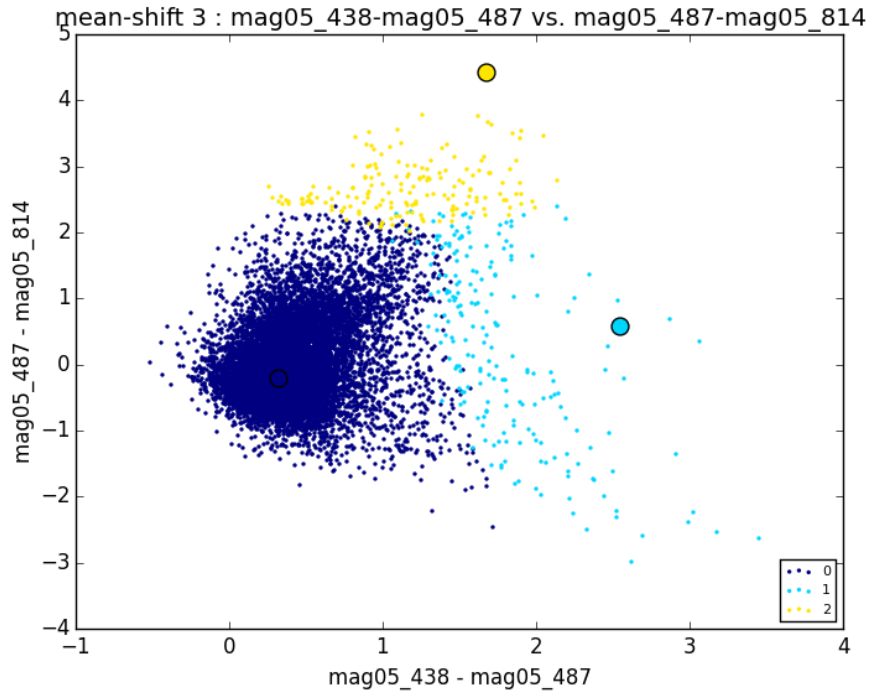


Figure 31: meanshift_3d_color_3cl_mag05_438-mag05_487vsmag05_487-mag05_814.png

meanshift results, Ncl=3

Cluster	Nobj	tScore	cScore	rms	AvgDist	MaxDist	MinDist	Stdev	Cen1
1	12774	0.596968117107	0.605384208993	0.4883	0.8235	5.4019	0.0010	0.4867	0.323309452012
2	203	0.596968117107	-0.0288506262498	1.5102	1.9464	6.1748	0.0135	1.4641	2.54785714286
3	170	0.596968117107	0.711874276868	1.7414	0.8130	2.6058	0.0230	1.0217	1.677

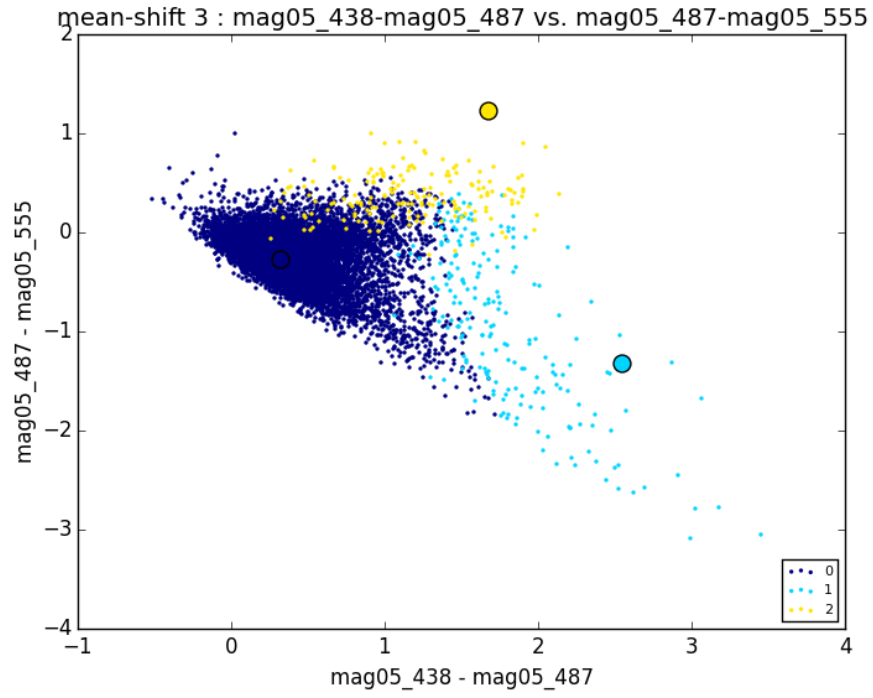


Figure 32: meanshift_3d_color_3cl_mag05_438-mag05_487vsmag05_487-mag05_555.png

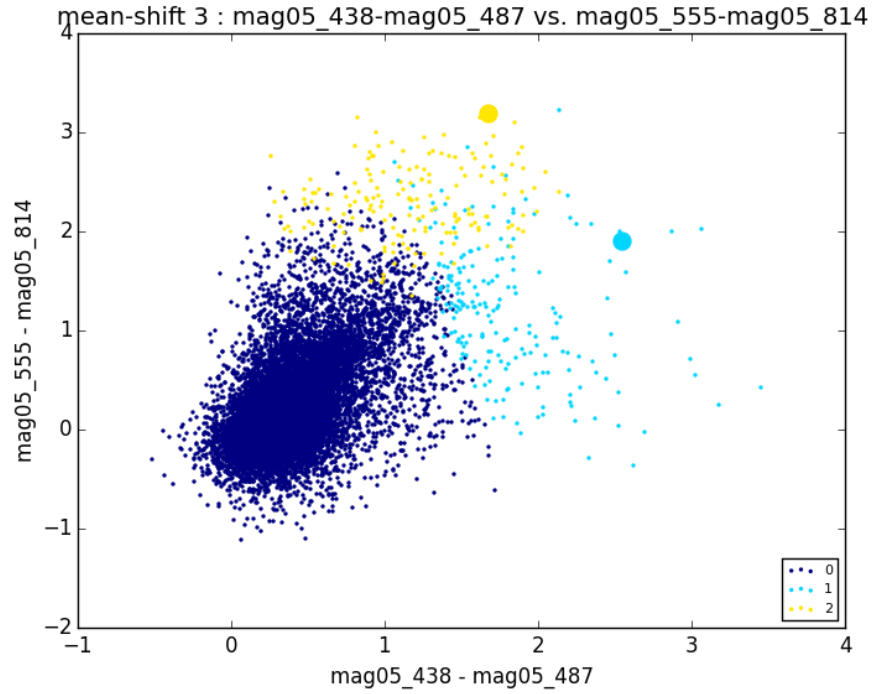


Figure 33: meanshift_base_color_3cl_mag05_438-mag05_487vsmag05_555-mag05_814.png

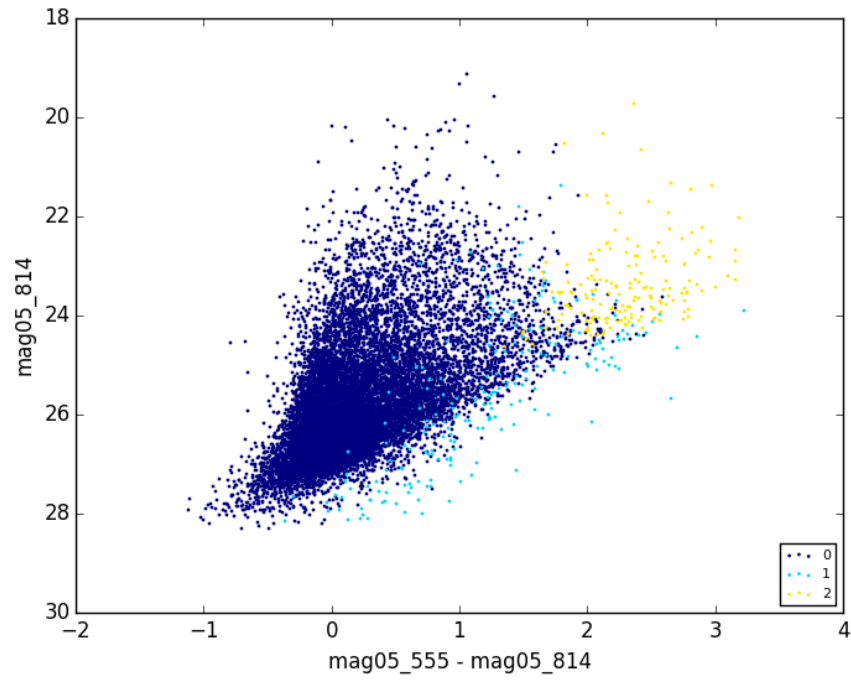


Figure 34: meanshift_CMD_3cl_mag05_555-mag05_814vsmag05_814.png

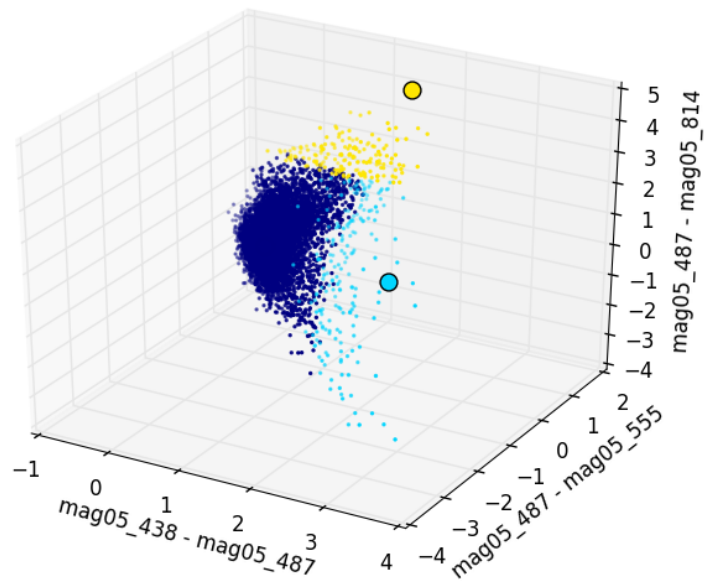


Figure 35: meanshift_3d_color_3cl_mag05_438-mag05_487vsmag05_487-mag05_555vsmag05_487-mag05_814.png

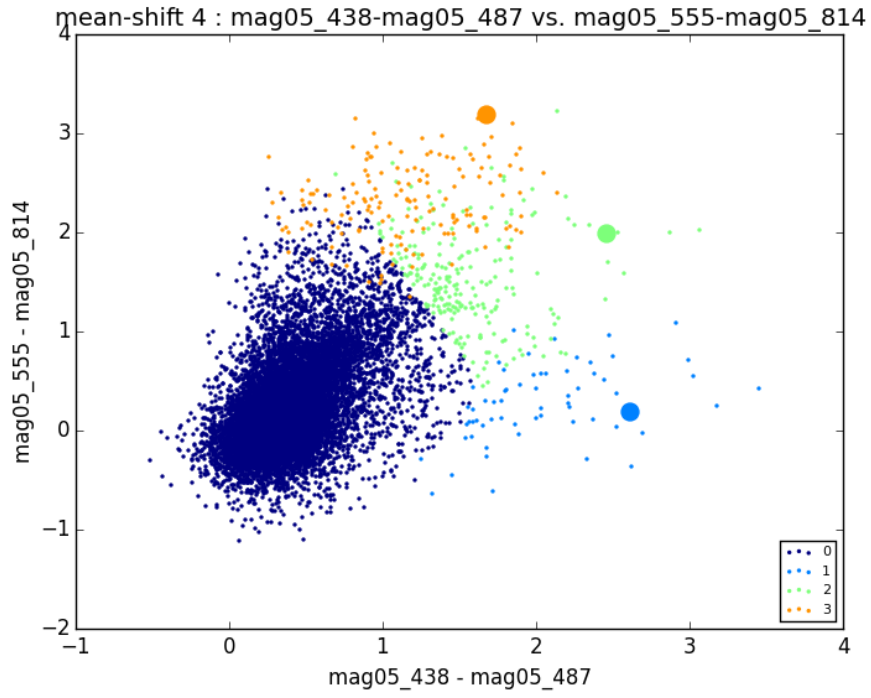


Figure 36: meanshift_base_color_4cl_mag05_438-mag05_487vsmag05_555-mag05_814.png

meanshift results, Ncl=4

Cluster	Nobj	tScore	cScore	rms	AvgDist	MaxDist	MinDist	Stdev	Cen1
1	12705	0.560071988436	0.569370136789	0.4795	0.8089	4.3469	0.0010	0.4782	0.318374824419
2	61	0.560071988436	0.667156323613	1.9428	0.9701	2.8507	0.0521	1.8728	2.61618181818
3	221	0.560071988436	-0.015655100981	1.3148	1.3740	3.8195	0.0135	1.0634	2.4632
4	160	0.560071988436	0.576138035264	1.7507	0.8086	2.6058	0.0230	1.0292	1.677

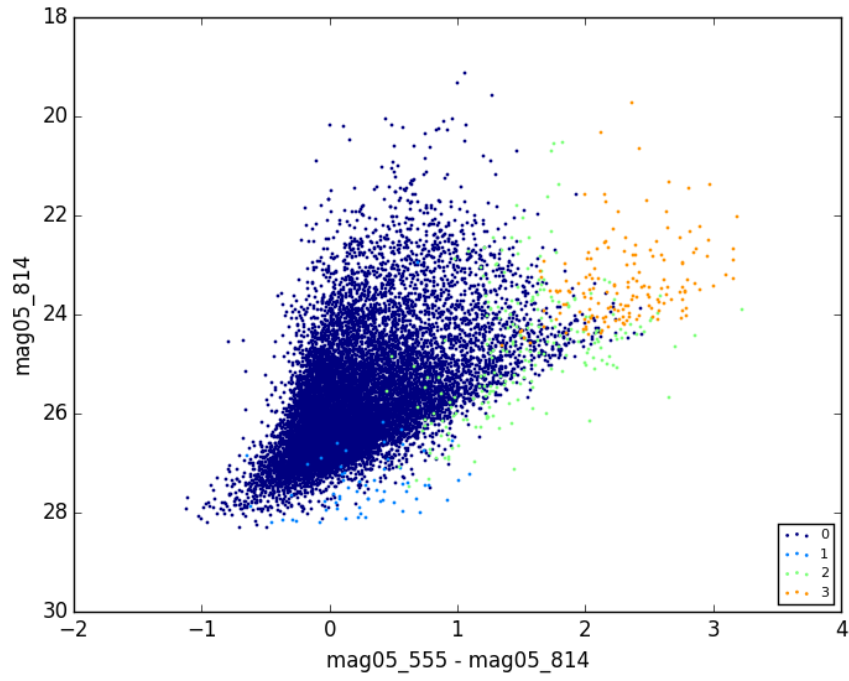


Figure 37: meanshift_CMD_4cl_mag05_555-mag05_814vsmag05_814.png

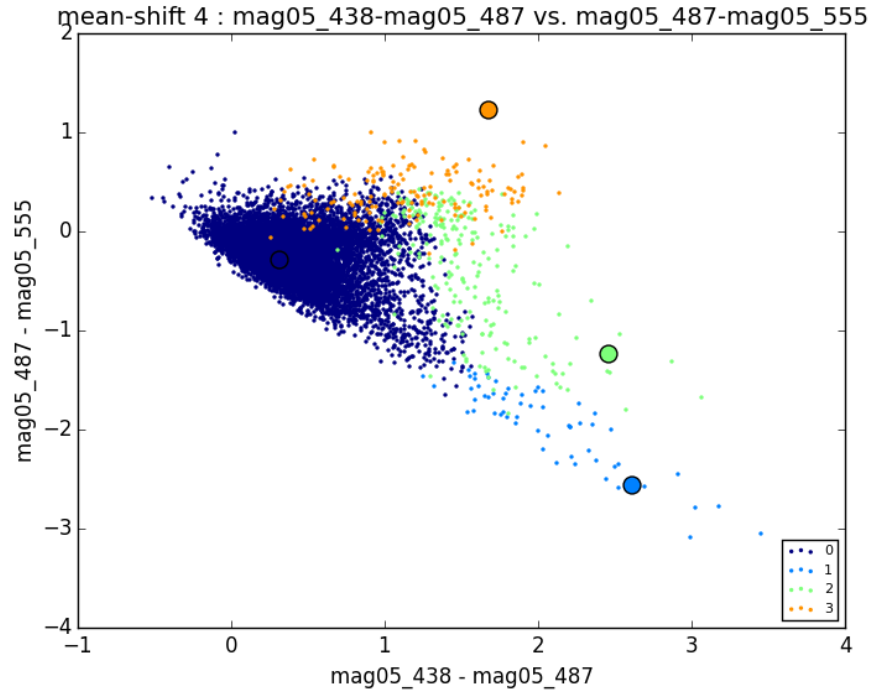


Figure 38: meanshift_3d_color_4cl_mag05_438-mag05_487vsmag05_487-mag05_555.png

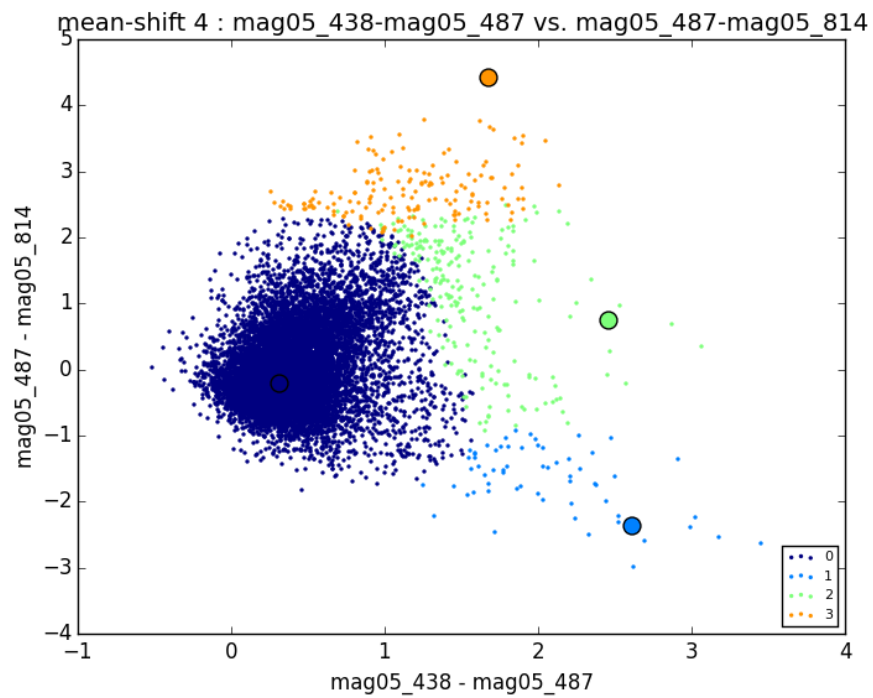


Figure 39: meanshift_3d_color_4cl_mag05_438-mag05_487vsmag05_487-mag05_814.png

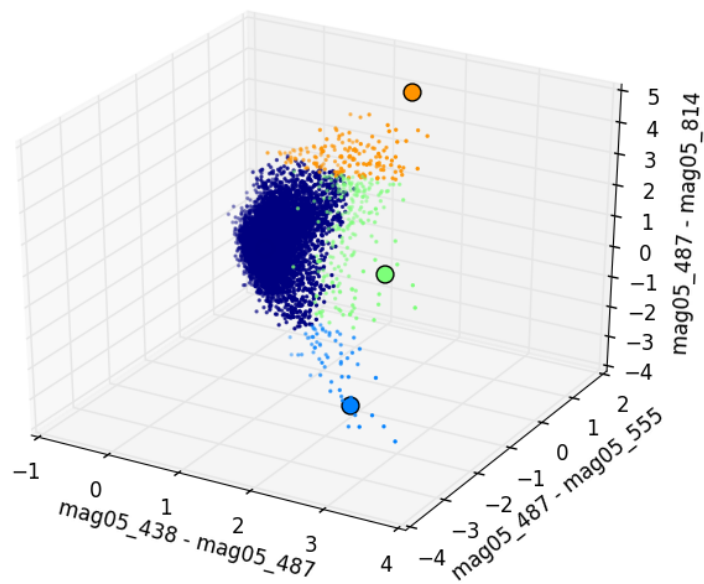


Figure 40: meanshift_3d_color_4cl_mag05_438-mag05_487vsmag05_487-mag05_555vsmag05_487-mag05_814.png

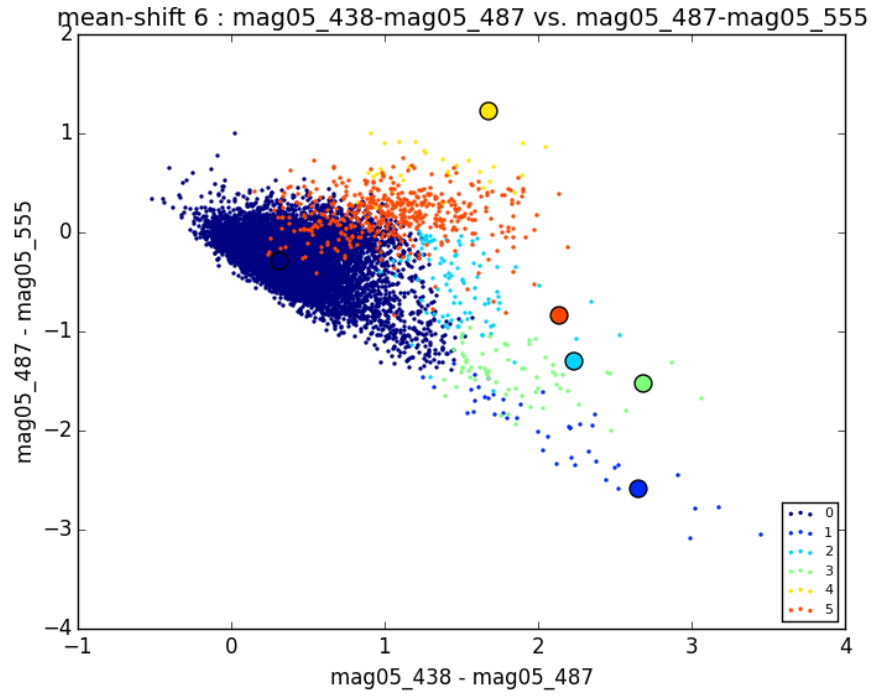


Figure 41: meanshift_3d_color_6cl_mag05_438-mag05_487vsmag05_487-mag05_555.png

meanshift results, Ncl=6

Cluster	Nobj	tScore	cScore	rms	AvgDist	MaxDist	MinDist	Stdev	Cen1	
1	12454	0.466936668027	0.473671481006	0.4566	0.7644	4.2393	0.0010	0.4561	0.312539418618	-0
2	45	0.466936668027	0.326359341582	2.0531	0.9786	2.8507	0.0521	1.9658	2.656	
3	96	0.466936668027	0.352646212655	1.0709	0.7752	1.8063	0.0221	0.9116	2.2318	
4	64	0.466936668027	0.424132333184	1.4401	0.7510	2.4132	0.0135	1.4383	2.685	
5	32	0.466936668027	0.530057939999	2.1041	0.7031	1.8427	0.0543	1.162	1.677	
6	456	0.466936668027	0.322511447157	1.3681	0.8062	2.3653	0.0195	0.8348	2.138	

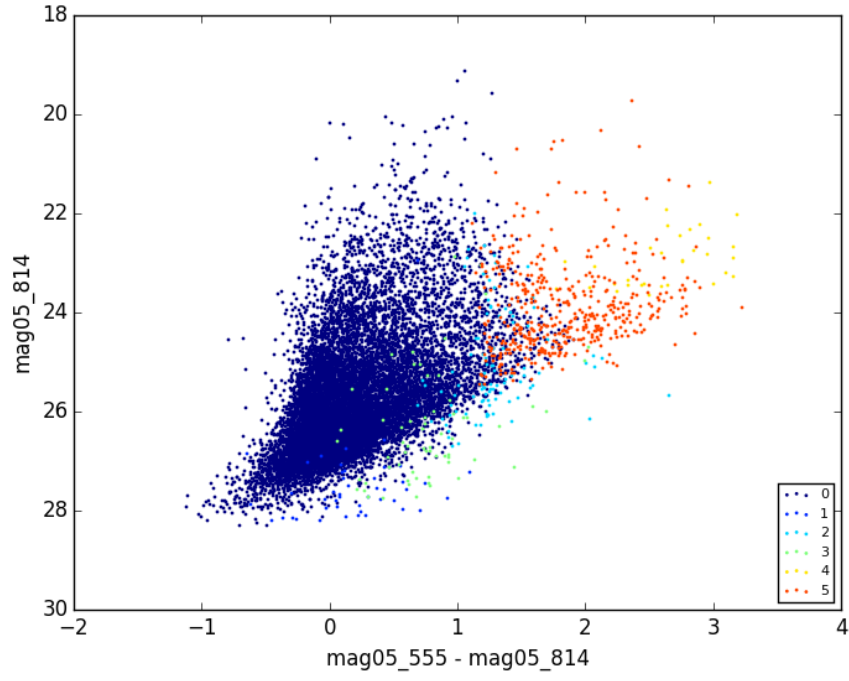


Figure 42: meanshift_CMD_6cl_mag05_555-mag05_814vsmag05_814.png

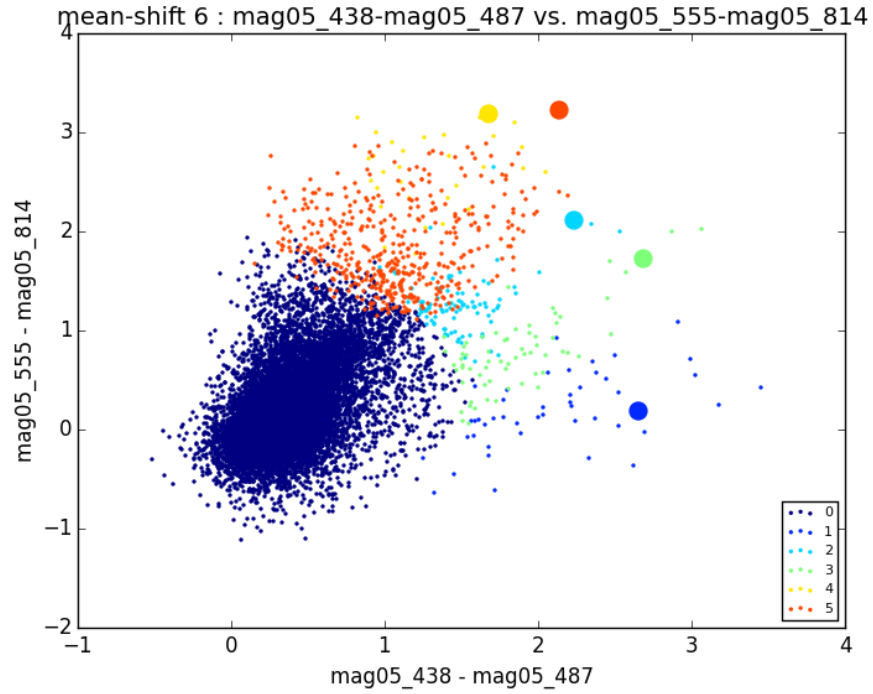


Figure 43: meanshift_base_color_6cl_mag05_438-mag05_487vsmag05_555-mag05_814.png

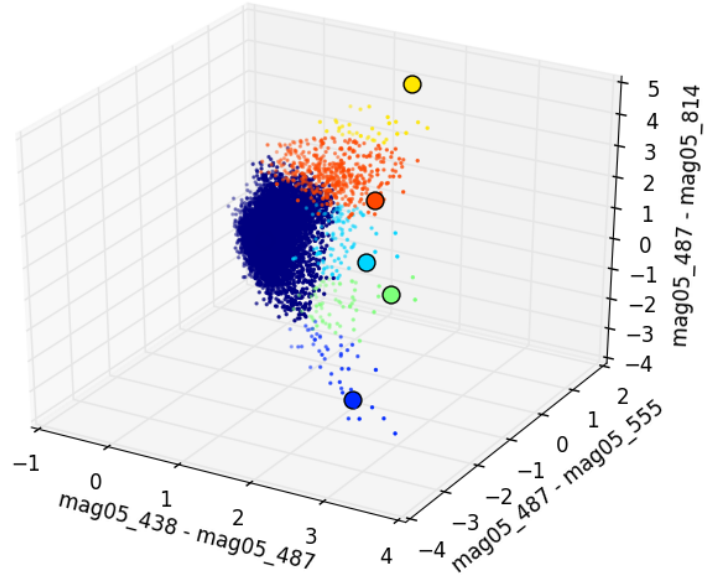


Figure 44: meanshift_3d_color_6cl_mag05_438-mag05_487vsmag05_487-mag05_555vsmag05_487-mag05_814.png

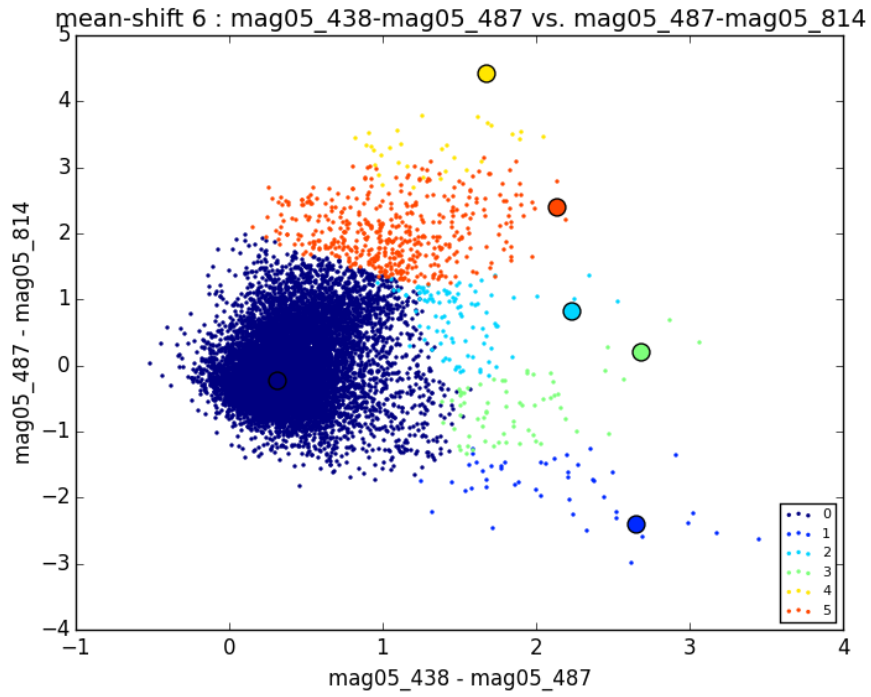


Figure 45: meanshift_3d_color_6cl_mag05_438-mag05_487vsmag05_487-mag05_814.png

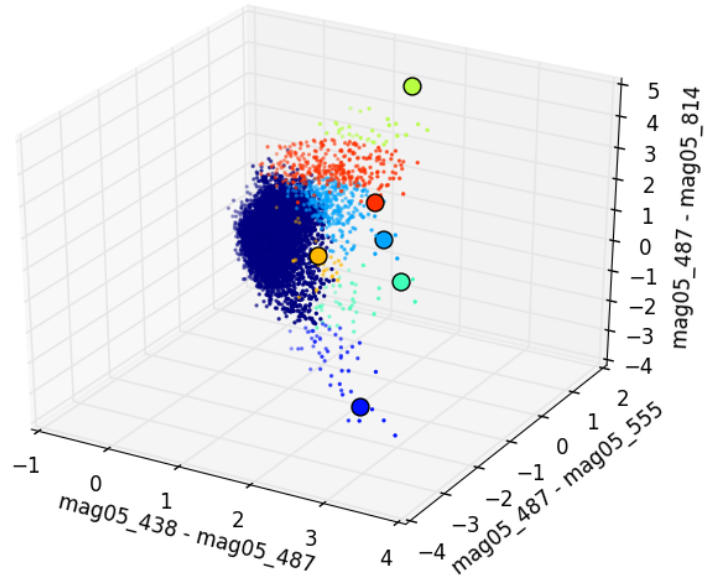


Figure 46: meanshift_3d_color_7cl_mag05_438-mag05_487vsmag05_487-mag05_555vsmag05_487-mag05_814.png

meanshift results, Ncl=7

Cluster	Nobj	tScore	cScore	rms	AvgDist	MaxDist	MinDist	Stdev	Cen1	
1	12337	0.418526426698	0.426317117983	0.4513	0.7508	4.2393	0.0010	0.4512	0.304222235902	-0
2	51	0.418526426698	0.365822440715	2.0129	0.9741	2.8507	0.0521	1.9343	2.82166666667	
3	344	0.418526426698	0.379645494623	1.0416	0.6142	2.4072	0.0180	0.6643	2.221	
4	40	0.418526426698	0.291226939472	1.4699	0.7491	2.0501	0.0135	1.4685	2.73275	
5	32	0.418526426698	0.464355444315	2.1041	0.7031	1.8427	0.0543	1.162	1.677	
6	31	0.418526426698	0.268351793503	1.0520	0.7025	2.1878	0.0292	1.0248	1.711	
7	312	0.418526426698	0.188494535983	1.4640	0.7726	2.3653	0.0230	0.899	2.138	

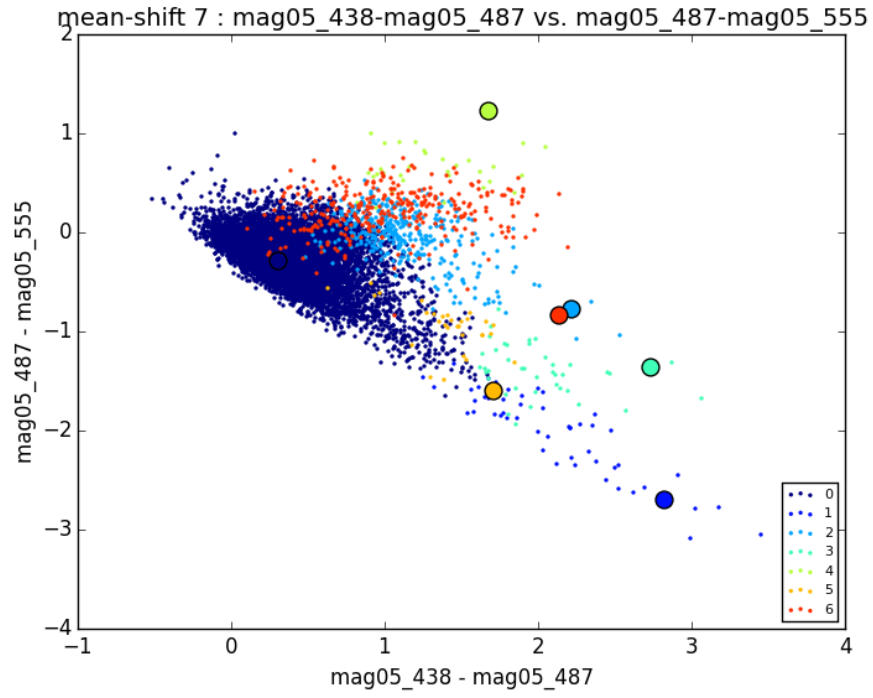


Figure 47: meanshift_3d_color_7cl_mag05_438-mag05_487vsmag05_487-mag05_555.png

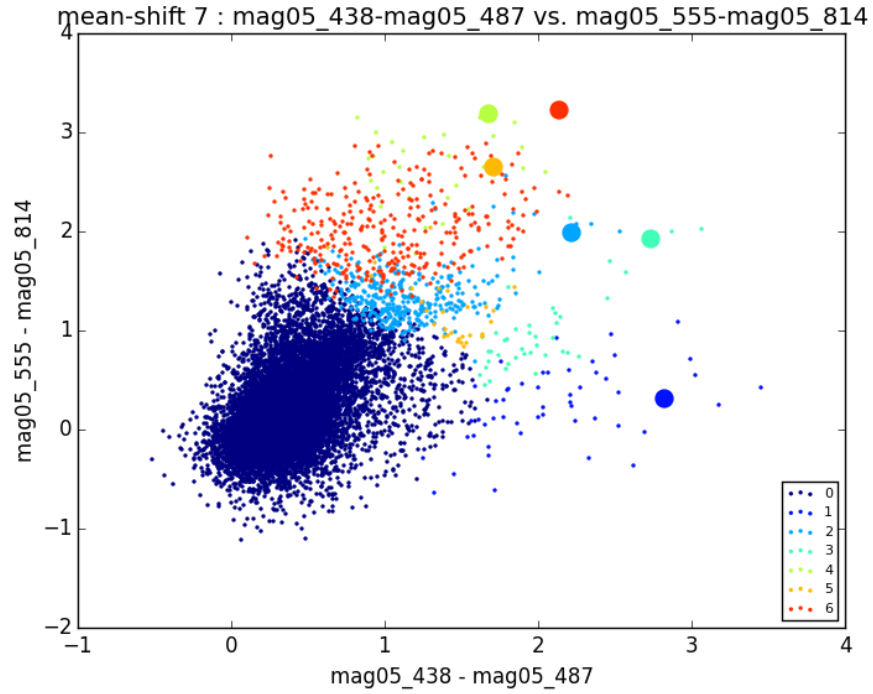


Figure 48: meanshift_base_color_7cl_mag05_438-mag05_487vsmag05_555-mag05_814.png

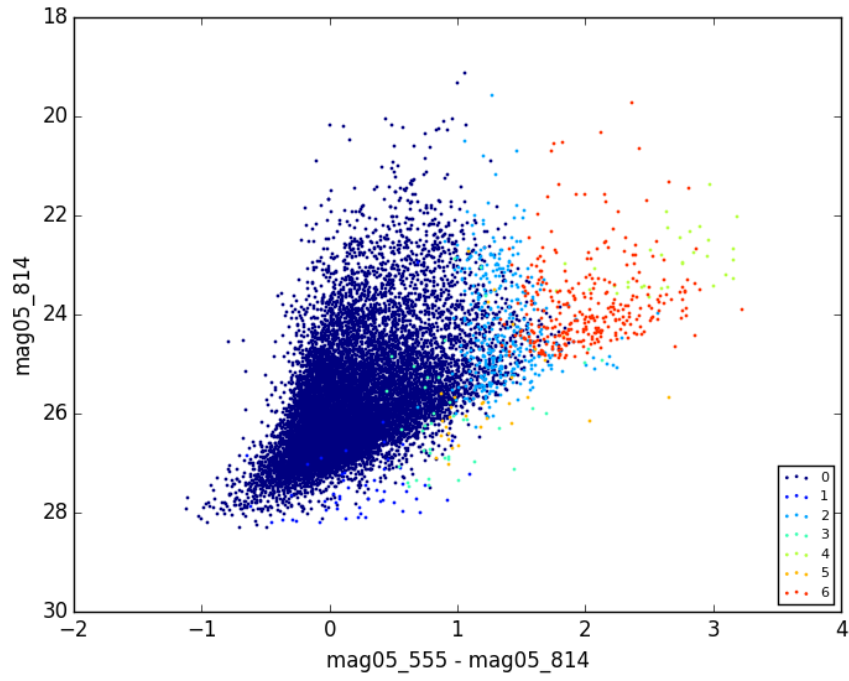


Figure 49: meanshift_CMD_7cl_mag05_555-mag05_814vsmag05_814.png

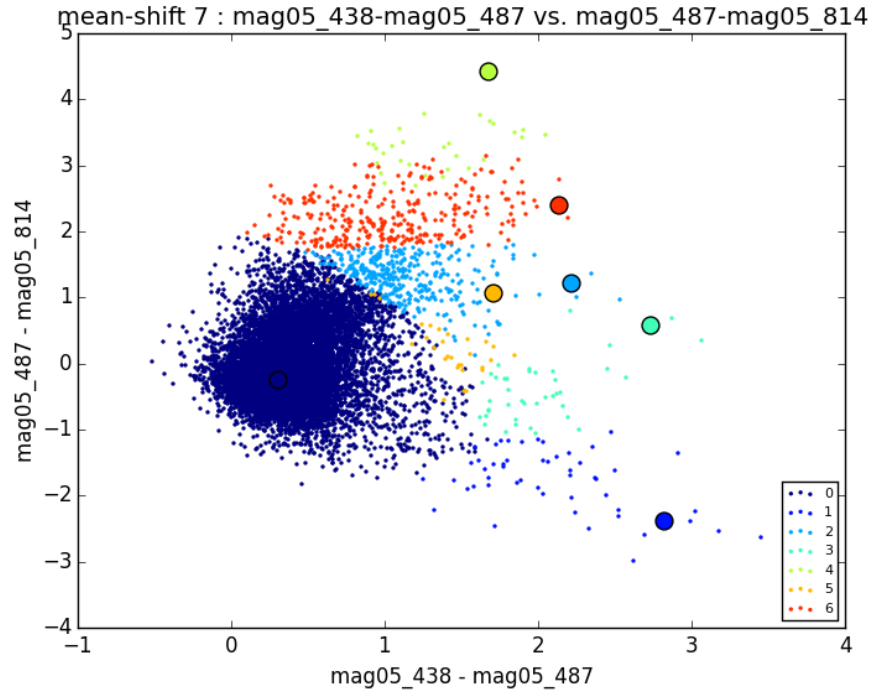


Figure 50: meanshift_3d_color_7cl_mag05_438-mag05_487vsmag05_487-mag05_814.png

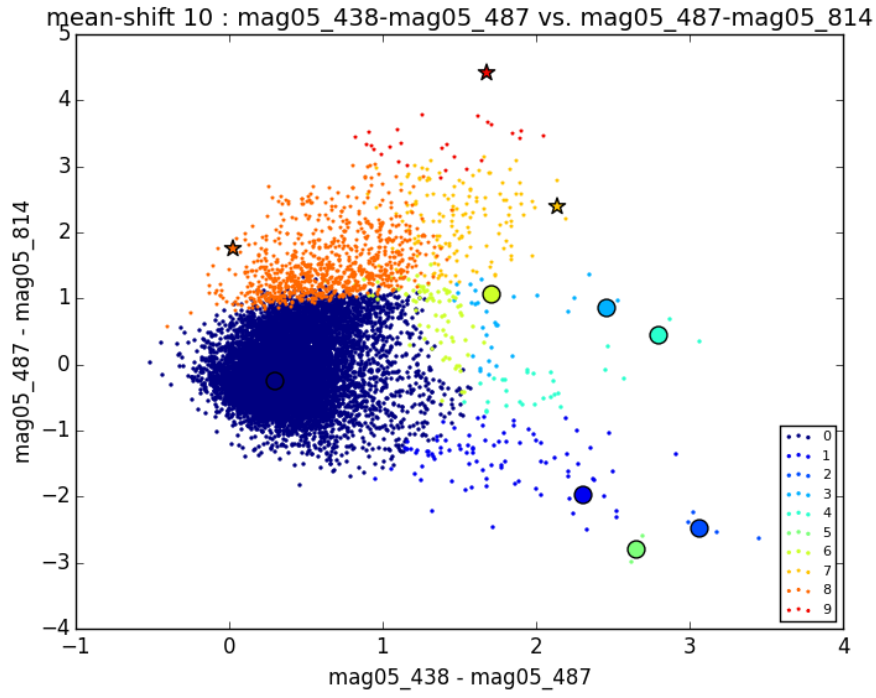


Figure 51: meanshift_3d_color_10cl_mag05_438-mag05_487vsmag05_487-mag05_814.png

meanshift results, Ncl=10

Cluster	Nobj	tScore	cScore	rms	AvgDist	MaxDist	MinDist	Stdev	Cen1
1	11886	0.466277447292	0.485344988203	0.4305	0.6928	3.1662	0.0010	0.4304	0.301835847382
2	88	0.466277447292	0.276418962739	1.6547	0.8359	2.3732	0.0168	1.5921	2.30638461538
3	4	0.466277447292	0.419858939903	2.8641	0.4361	0.6322	0.3275	2.7678	3.0672
4	29	0.466277447292	-0.00363368793981	1.2086	0.8209	1.6846	0.0292	1.0499	2.46275
5	28	0.466277447292	0.448096627689	1.4578	0.6497	1.8427	0.0135	1.4526	2.80033333333
6	2	0.466277447292	0.468527316455	2.6873	0.3935	0.3935	0.3935	2.5276	2.6565
7	78	0.466277447292	0.0994991602134	1.0004	0.7583	2.3173	0.0221	0.853	1.711
8	147	0.466277447292	0.180682301716	1.5616	0.8038	1.9176	0.0230	0.9307	2.138
9	858	0.466277447292	0.319062252211	1.0065	0.7301	2.8113	0.0032	0.6569	0.022
10	27	0.466277447292	0.514064324993	2.1541	0.6869	1.6941	0.0543	1.1981	1.677

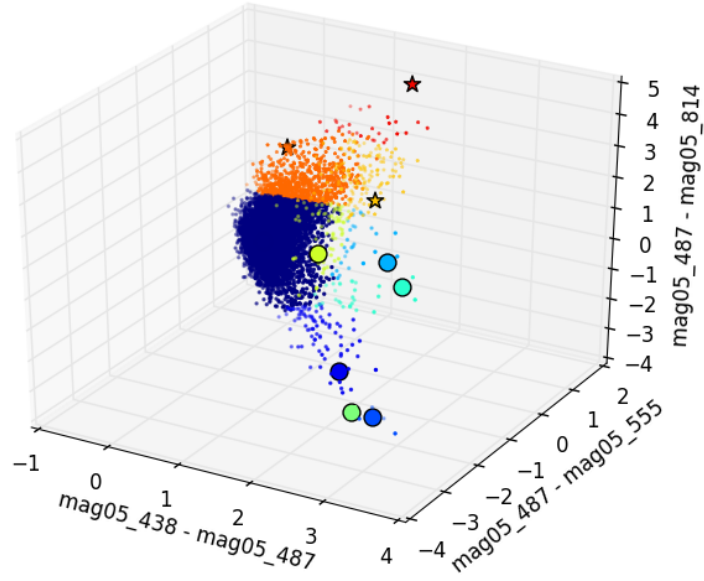


Figure 52: meanshift_3d_color_10cl_mag05_438-mag05_487vsmag05_487-mag05_555vsmag05_487-mag05_814.png

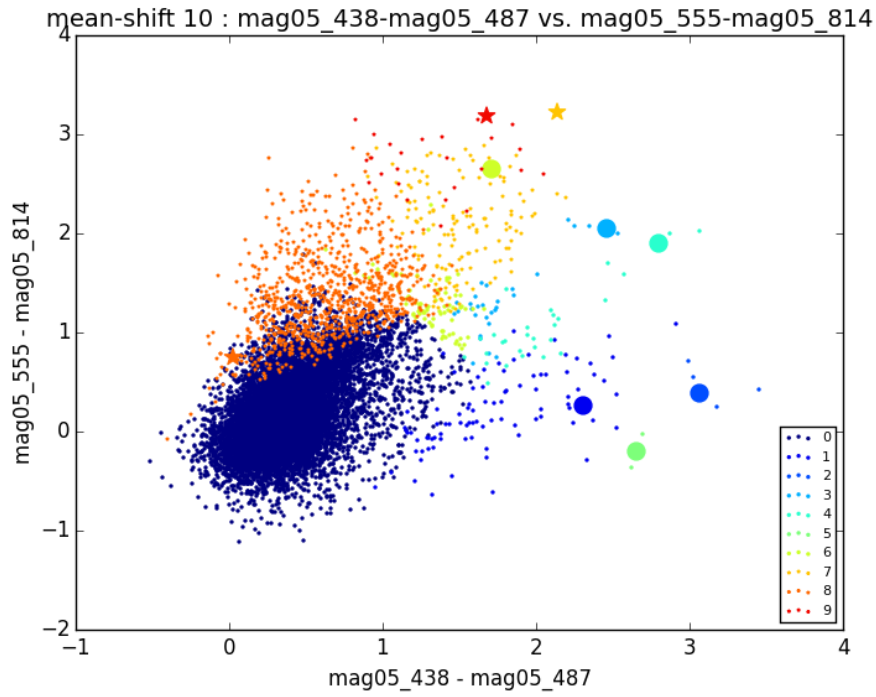


Figure 53: meanshift_base_color_10cl_mag05_438-mag05_487vsmag05_555-mag05_814.png

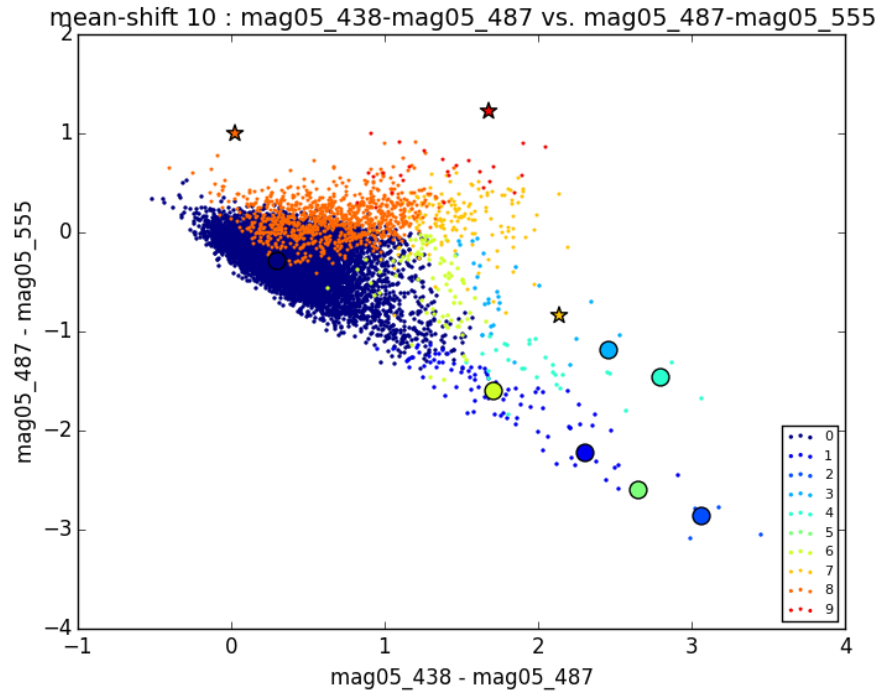


Figure 54: meanshift_3d_color_10cl_mag05_438-mag05_487vsmag05_487-mag05_555.png

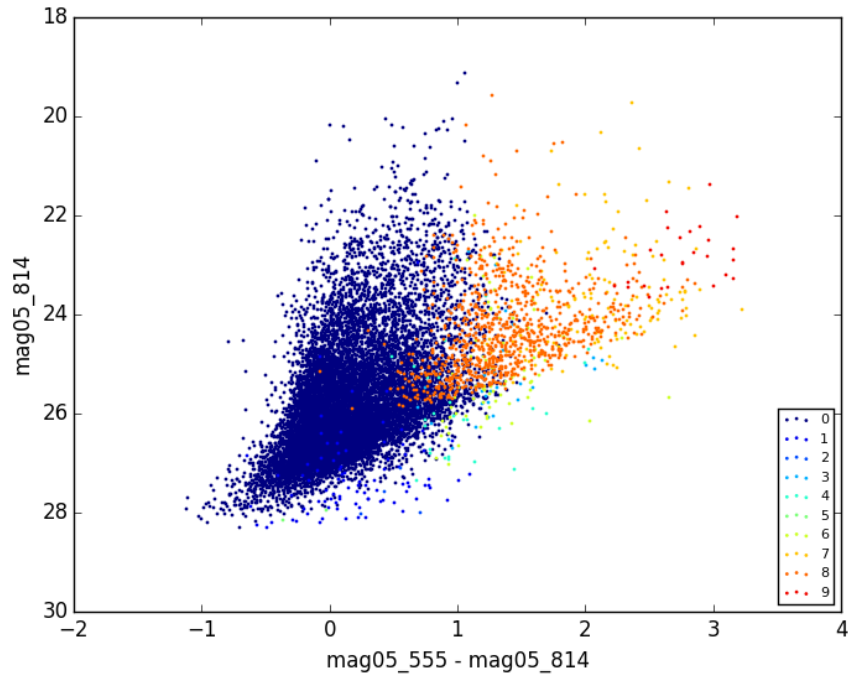


Figure 55: meanshift_CMD_10cl_mag05_555-mag05_814vsmag05_814.png

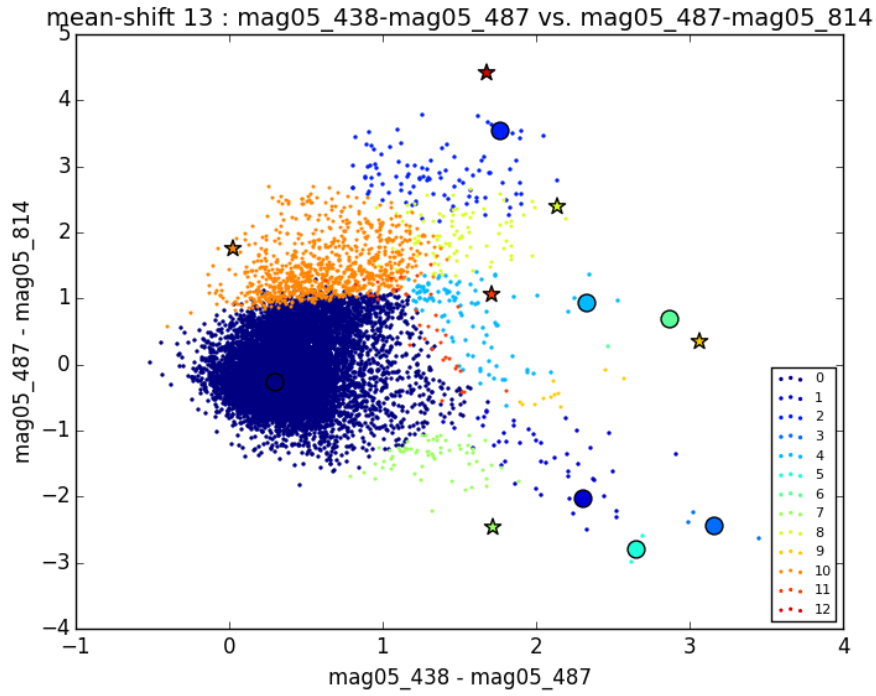


Figure 56: meanshift_3d_color_13cl_mag05_438-mag05_487vsmag05_487-mag05_814.png

meanshift results, Ncl=13

Cluster	Nobj	tScore	cScore	rms	AvgDist	MaxDist	MinDist	Stdev	Cen1
1	11849	0.449105654949	0.46605975635	0.4275	0.6877	3.1425	0.0010	0.4274	0.296615173549
2	45	0.449105654949	0.0372608491729	1.8277	0.8252	2.0918	0.0680	1.7817	2.30909090909
3	98	0.449105654949	0.320795139402	1.8739	0.6984	1.6854	0.0230	1.0464	1.76525
4	4	0.449105654949	0.419858939903	2.8641	0.4361	0.6322	0.3275	2.7678	3.161
5	96	0.449105654949	0.0328380824797	1.1040	0.8330	2.3946	0.0135	0.9213	2.32766666667
6	2	0.449105654949	0.468527316455	2.6873	0.3935	0.3935	0.3935	2.5276	2.6565
7	2	0.449105654949	0.407940003928	1.7598	0.5880	0.5880	0.5880	1.6568	2.868
8	64	0.449105654949	0.504434507516	1.3781	0.5209	1.5643	0.0164	1.2945	1.718
9	89	0.449105654949	0.308968354609	1.4478	0.6475	1.6063	0.0292	0.8823	2.138
10	12	0.449105654949	0.418635101382	1.5748	0.5246	1.5303	0.0473	1.5703	3.068
11	847	0.449105654949	0.330378700382	0.9765	0.6907	2.3729	0.0032	0.6359	0.022
12	38	0.449105654949	-0.0601544226348	1.0239	0.9326	2.4837	0.0338	0.952	1.711
13	1	0.449105654949	0.0	N/A	N/A	N/A	N/A	1.4089	1.677

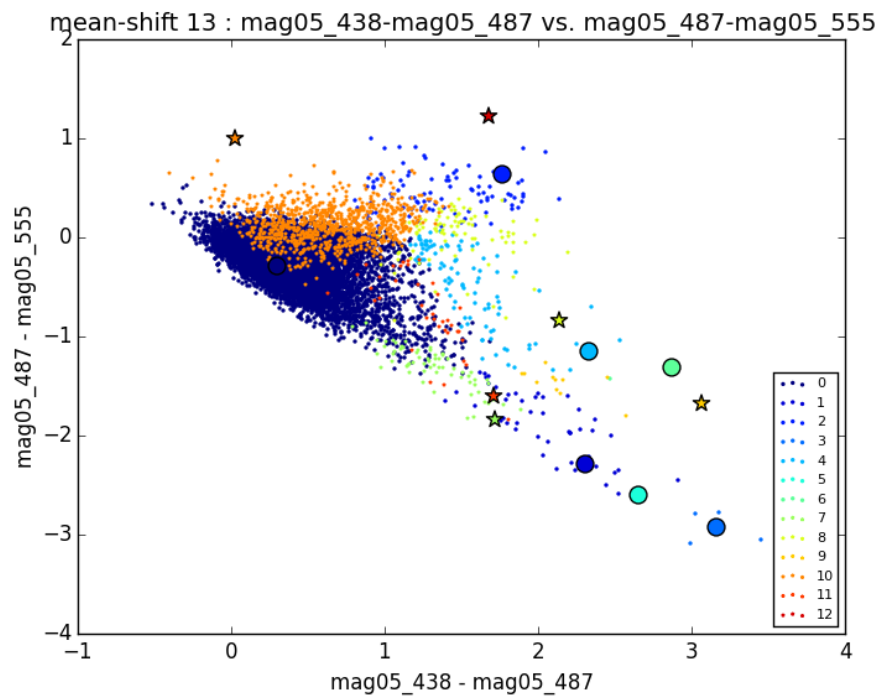


Figure 57: meanshift_3d_color_13cl_mag05_438-mag05_487vsmag05_487-mag05_555.png

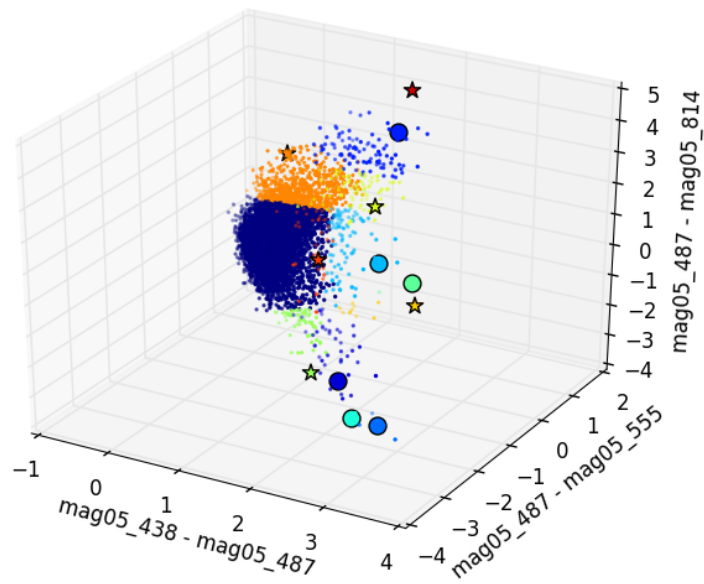


Figure 58: meanshift_3d_color_13cl_mag05_438-mag05_487vsmag05_487-mag05_555vsmag05_487-mag05_814.png

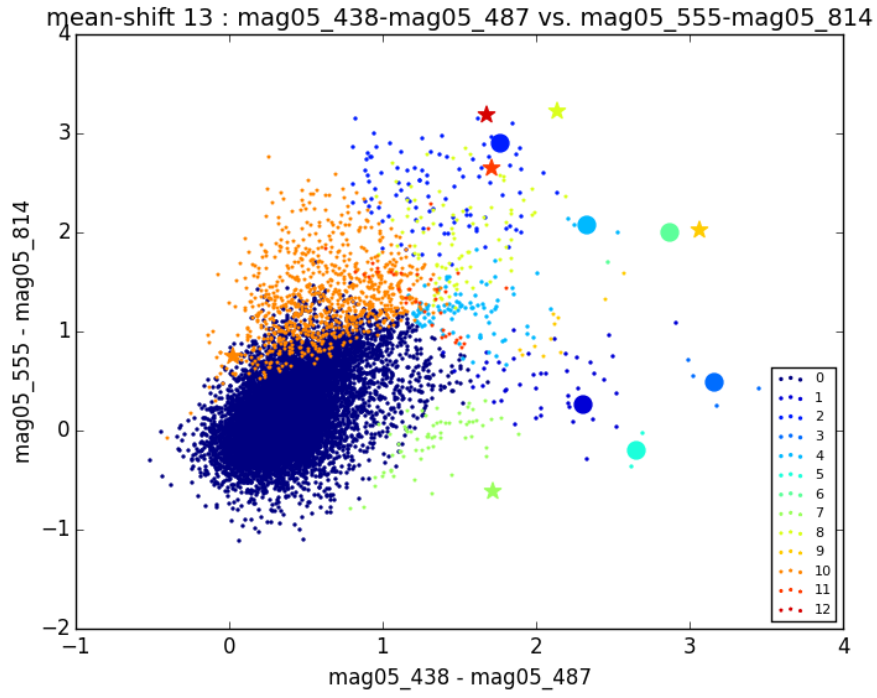


Figure 59: meanshift_base_color_13cl_mag05_438-mag05_487vsmag05_555-mag05_814.png

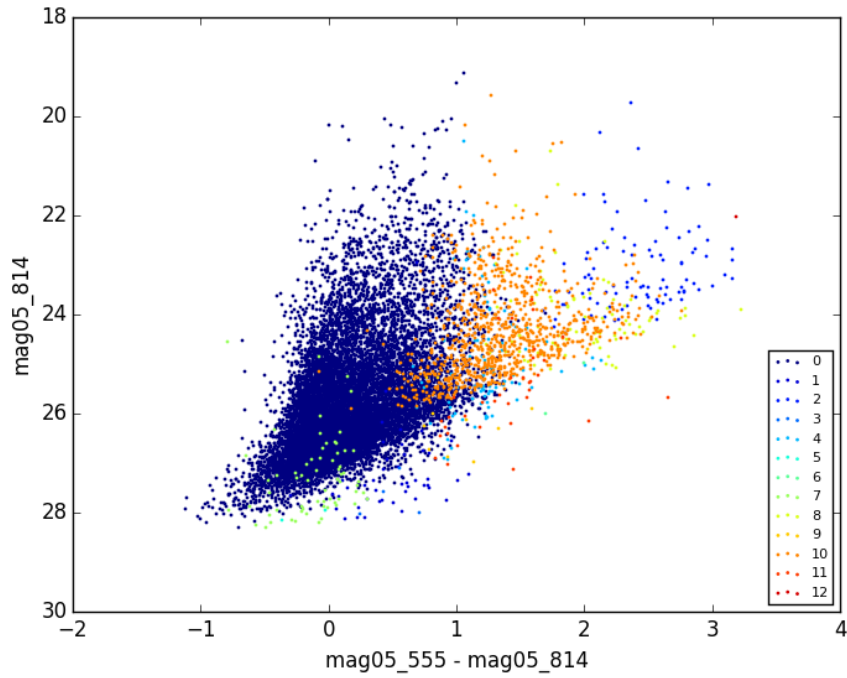


Figure 60: meanshift_CMD_13cl_mag05_555-mag05_814vsmag05_814.png