

Clustering output, found in /home/pauline/Research/m83_clustering/results/broad_band/U-B_V-I/clustering/mag05_336-
mag05_438_mag05_438-mag05_555_mag05_438-mag05_814

K-means results

Nclust	inertia	score	TotObj	N1	N2	N3	N4	N5	N6	N7	N8
3	7712.0667604	0.387479488202	28931	15552	10629	2750	0	0	0	0	0
4	6203.33820637	0.39333297694	28931	15192	10312	1789	1638	0	0	0	0
5	5045.13190025	0.331443771085	28931	10969	10548	4826	1623	965	0	0	0
6	4473.98324053	0.315210163694	28931	9482	7783	4717	4617	1424	908	0	0
7	3968.13601632	0.294121849641	28931	7299	7213	5735	4292	2335	1360	697	0
8	3559.86263158	0.293335905684	28931	7059	6508	5966	4458	2590	1272	588	490

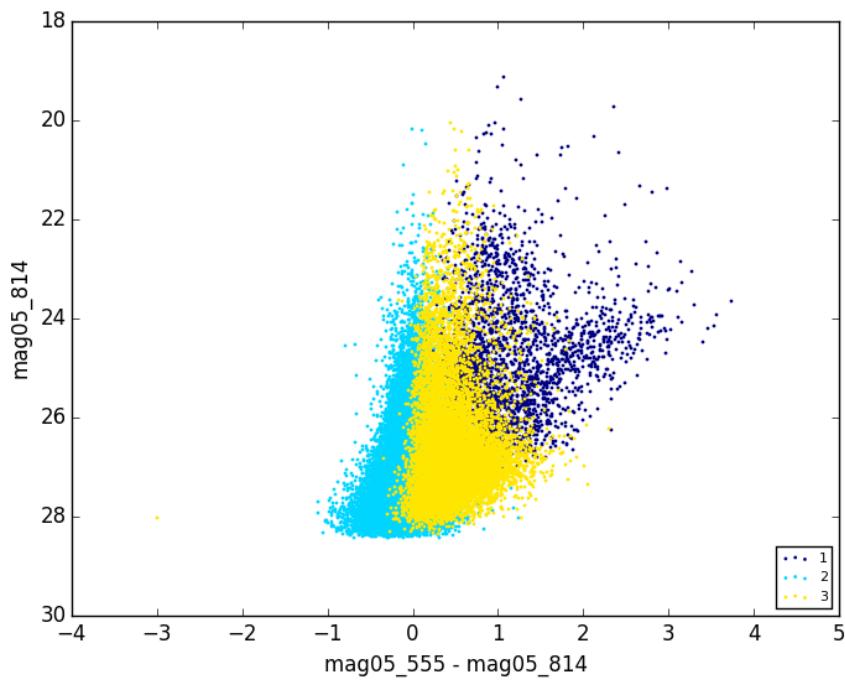


Figure 1: kmeans_CMD_3cl_mag05_555-mag05_814vsmag05_814.png

kmeans results, Ncl=3

Cluster	Nobj	tScore	cScore	rms	AvgDist	MaxDist	MinDist	Stdev	Cen1	0
1	2750	0.387479488202	0.170286302311	1.1888	1.2714	5.1270	0.0051	0.9965	-0.282578181818	0
2	15552	0.387479488202	0.477592455682	0.7887	0.4777	2.9679	0.0010	0.6153	-1.3063898534	0
3	10629	0.387479488202	0.31182273695	0.7528	0.6147	4.3175	0.0014	0.7484	-1.0210794054	0

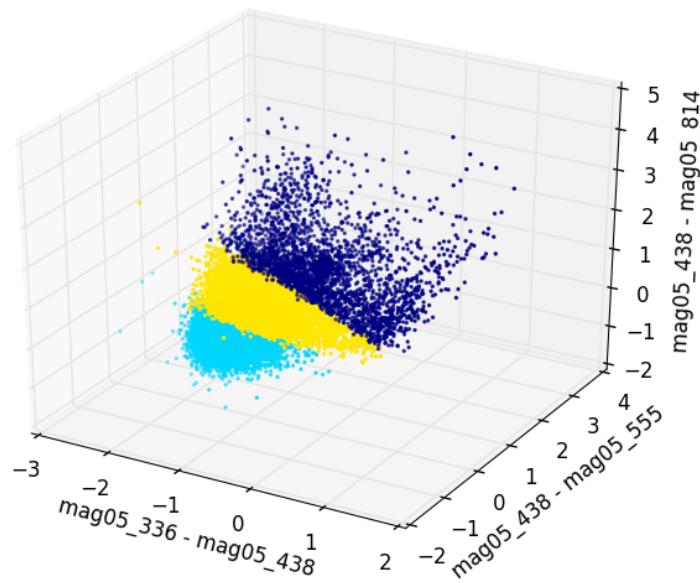


Figure 2: kmeans_3d_color_3cl_mag05_336-mag05_438vsmag05_438-mag05_555vsmag05_438-mag05_814.png

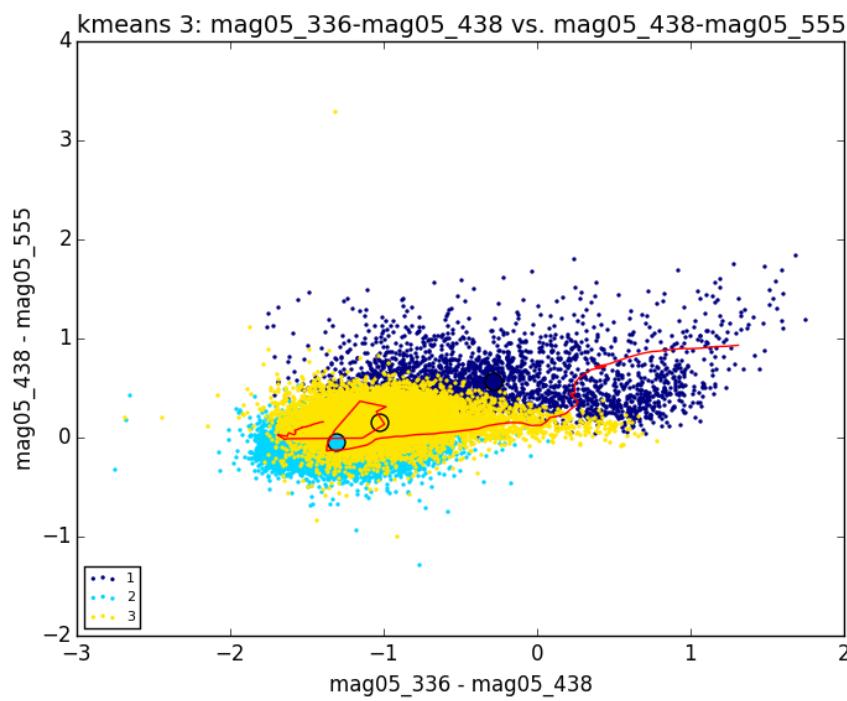


Figure 3: kmeans_3d_projection_3cl_mag05_336-mag05_438vsmag05_438-mag05_555.png

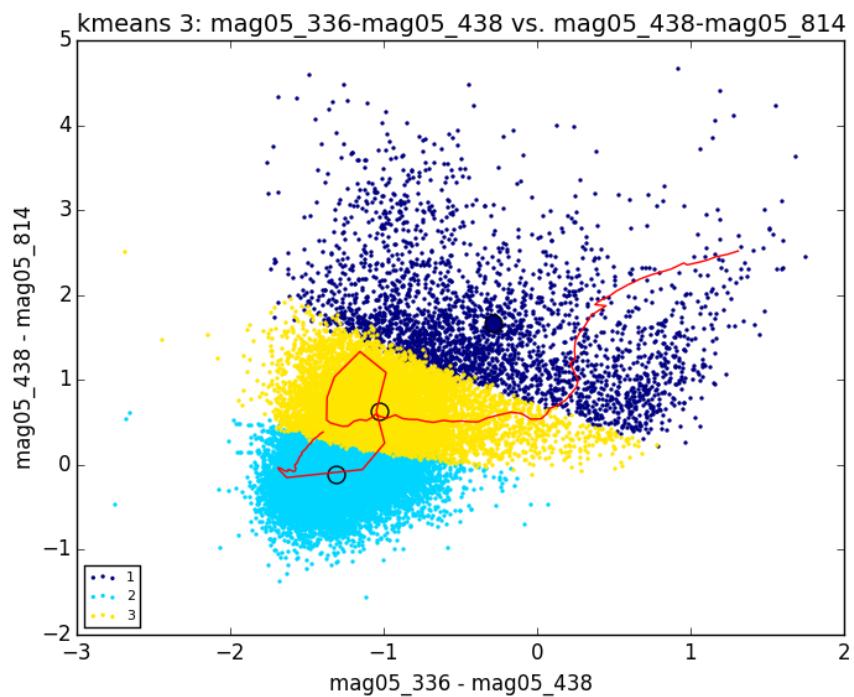


Figure 4: kmeans_3d_projection_3cl_mag05_336-mag05_438vsmag05_438-mag05_814.png

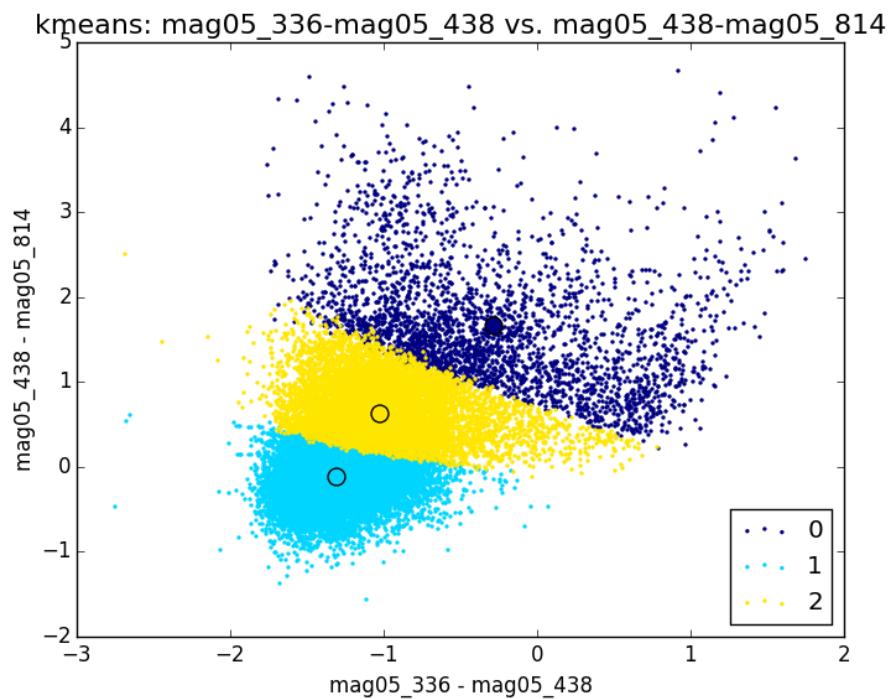


Figure 5: kmeans_3d_3cl_mag05_336-mag05_438vsmag05_438-mag05_814.png

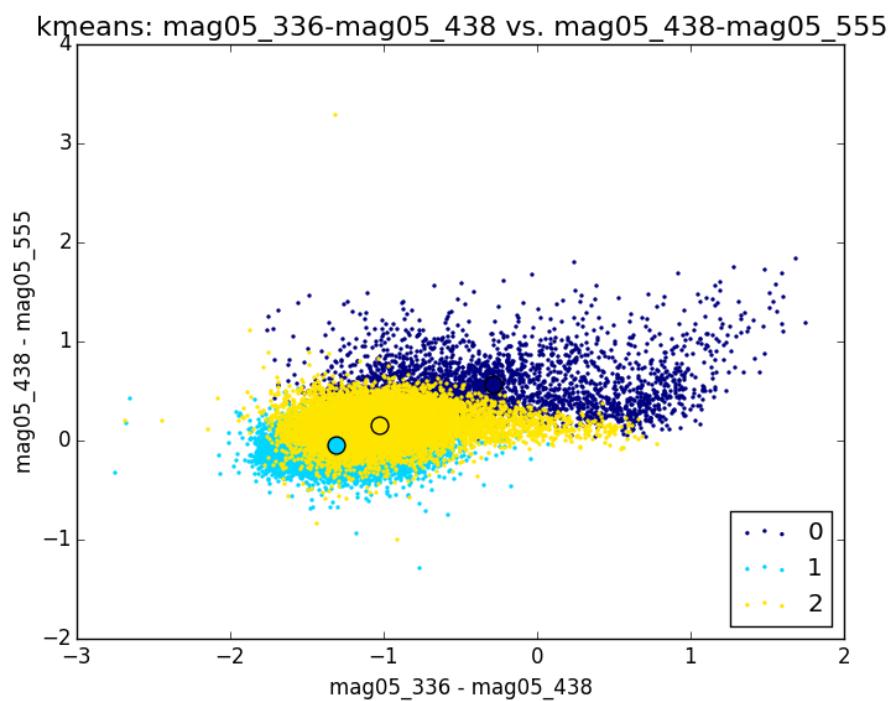


Figure 6: kmeans_3d_3cl_mag05_336-mag05_438vsmag05_438-mag05_555.png

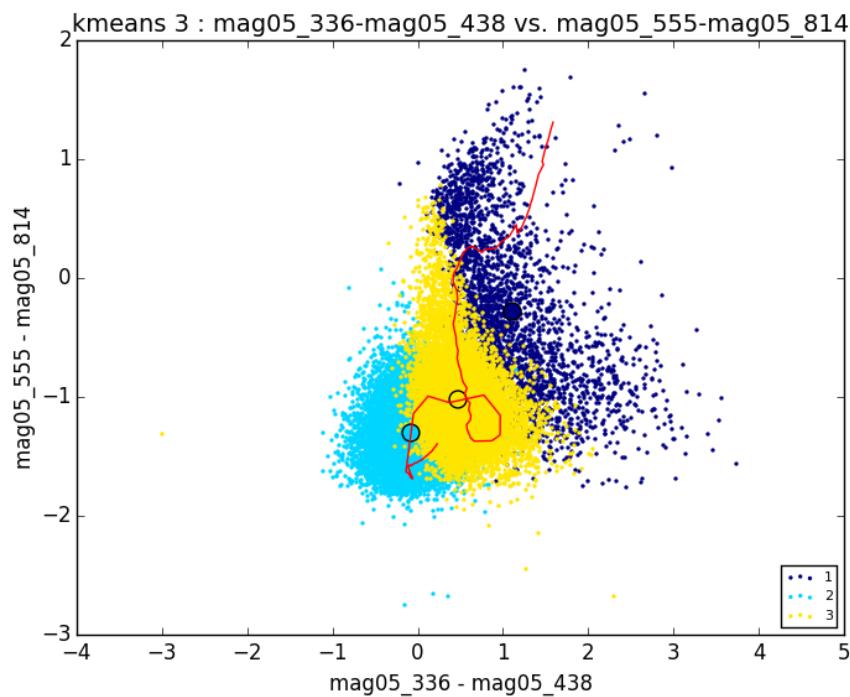


Figure 7: kmeans_base_color_3cl_mag05_336-mag05_438vsmag05_555-mag05_814.png

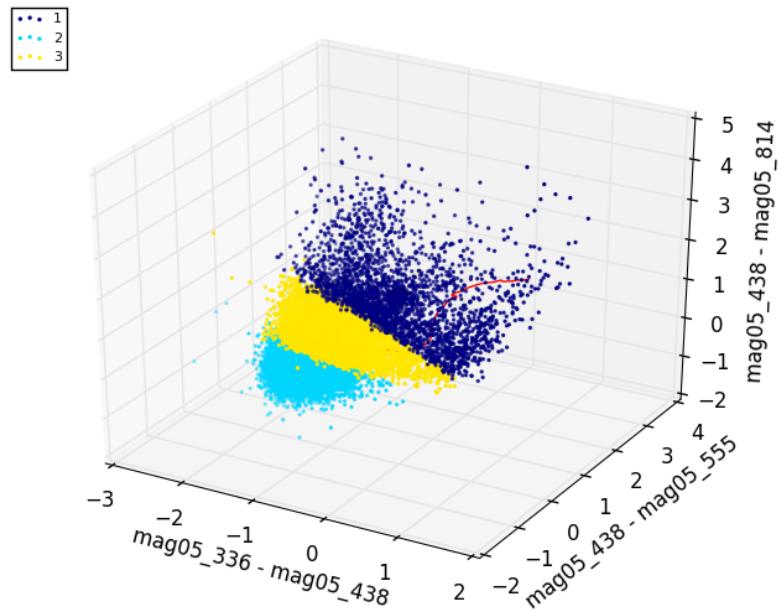


Figure 8: kmeans_3d_3cl_mag05_336-mag05_438vsmag05_438-mag05_555vsmag05_438-mag05_814.png

kmeans results, Ncl=4

Cluster	Nobj	tScore	cScore	rms	AvgDist	MaxDist	MinDist	Stdev	Cen1	Cen2
1	15192	0.39333297694	0.457381784313	0.7871	0.4739	2.9309	0.0010	0.6106	-1.30315067141	-0.00000000000
2	10312	0.39333297694	0.337325880429	0.7672	0.5517	4.3175	0.0014	0.7596	-1.08509464701	0.00000000000
3	1638	0.39333297694	0.247316222479	1.4085	1.0899	4.7998	0.0078	1.2447	-0.706427350427	0.00000000000
4	1789	0.39333297694	0.305960780972	0.6903	0.8568	3.4173	0.0047	0.5165	0.11010117384	0.00000000000

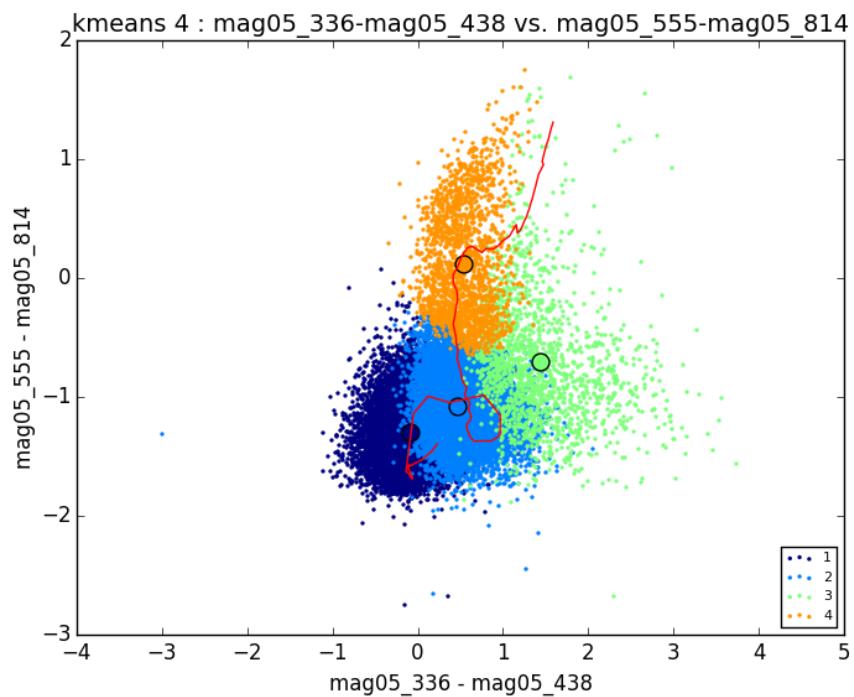


Figure 9: kmeans_base_color_4cl_mag05_336-mag05_438vsmag05_555-mag05_814.png

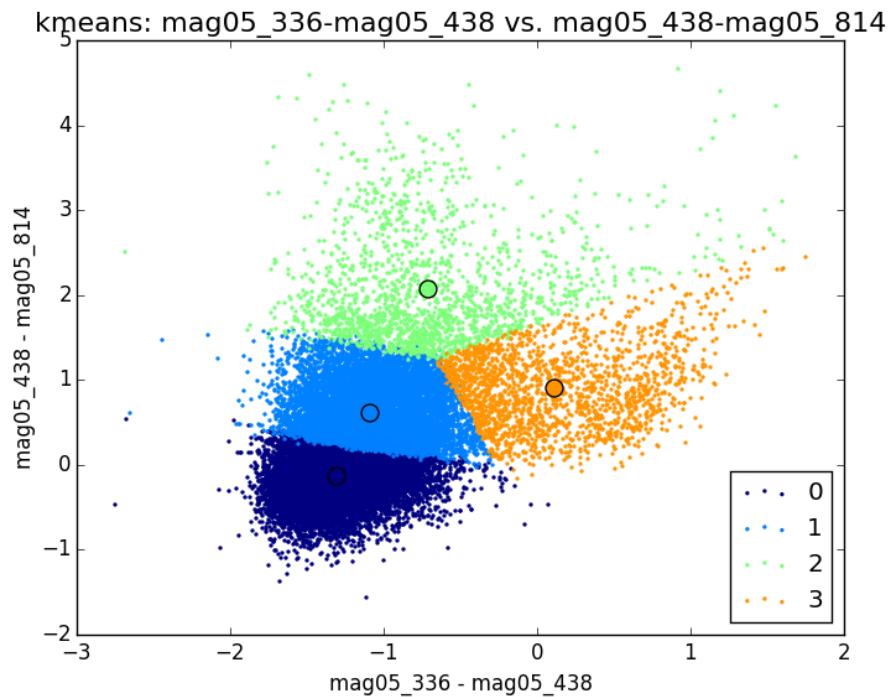


Figure 10: kmeans_3d_4cl_mag05_336-mag05_438vsmag05_438-mag05_814.png

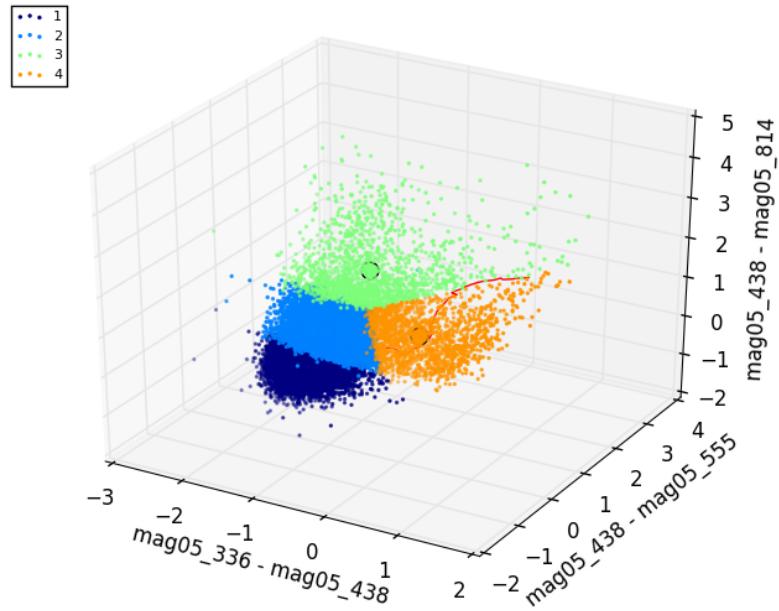


Figure 11: kmeans_3d_4cl_mag05_336-mag05_438vsmag05_438-mag05_555vsmag05_438-mag05_814.png

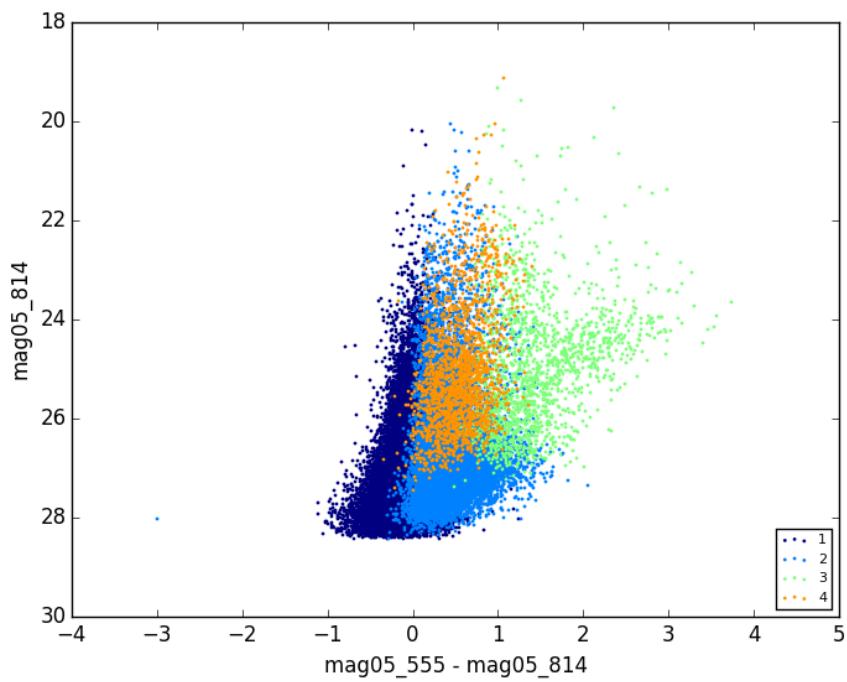


Figure 12: kmeans_CMD_4cl_mag05_555-mag05_814vsmag05_814.png

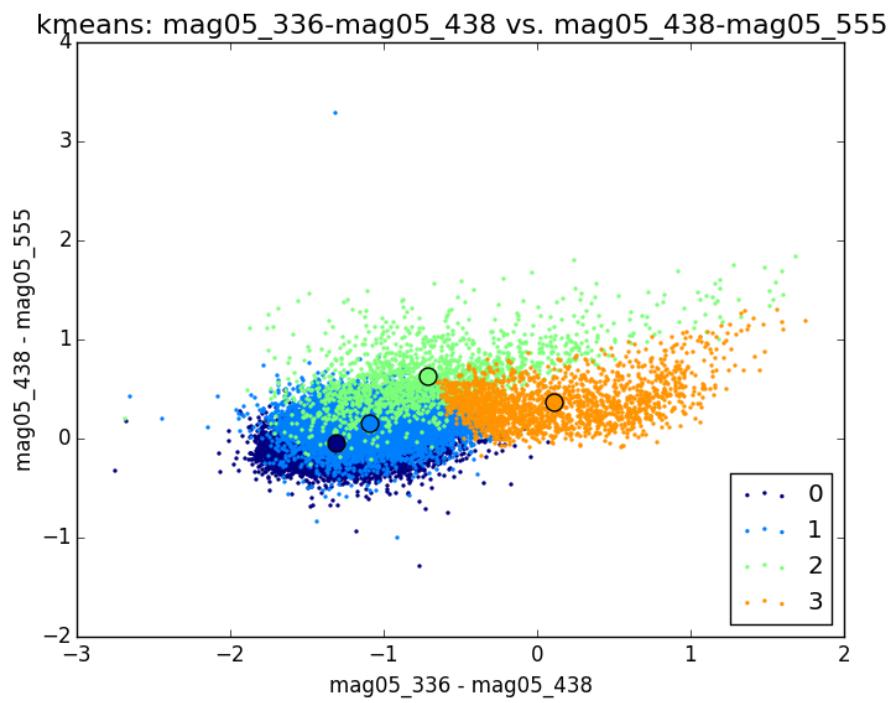


Figure 13: kmeans_3d_4cl_mag05_336-mag05_438vsmag05_438-mag05_555.png

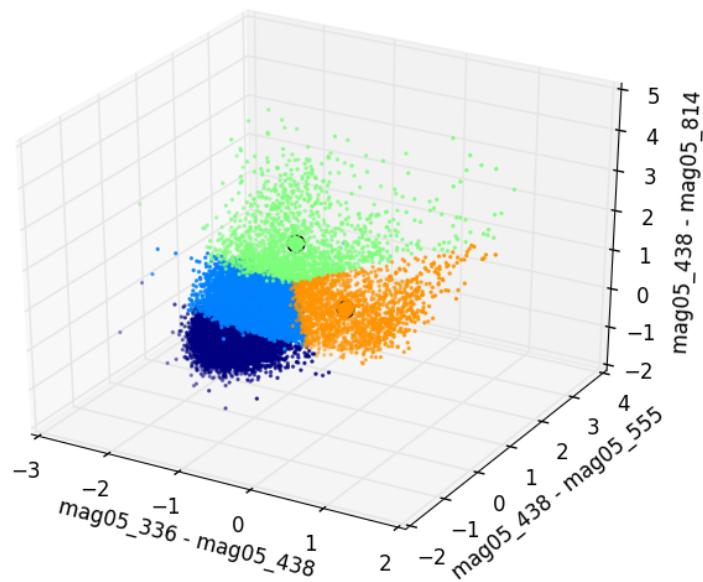


Figure 14: kmeans_3d_color_4cl_mag05_336-mag05_438vsmag05_438-mag05_555vsmag05_438-mag05_814.png

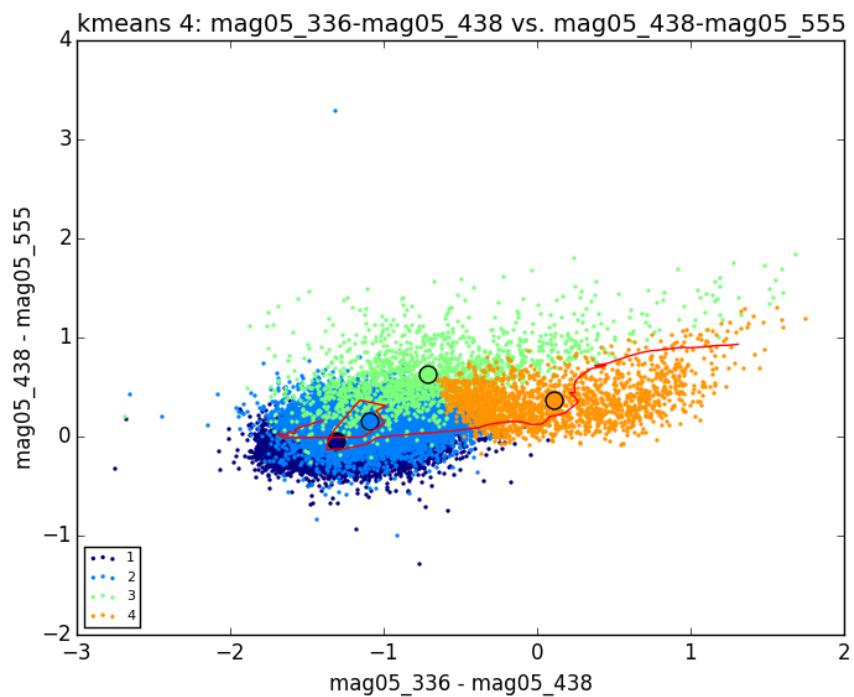


Figure 15: kmeans_3d_projection_4cl_mag05_336-mag05_438vsmag05_438-mag05_555.png

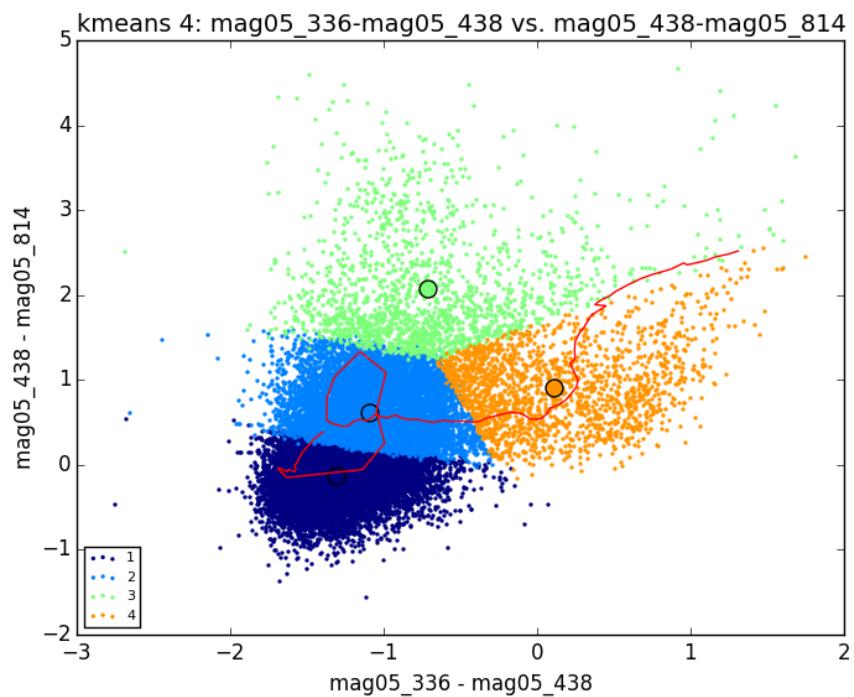


Figure 16: kmeans_3d_projection_4cl_mag05_336-mag05_438vsmag05_438-mag05_814.png

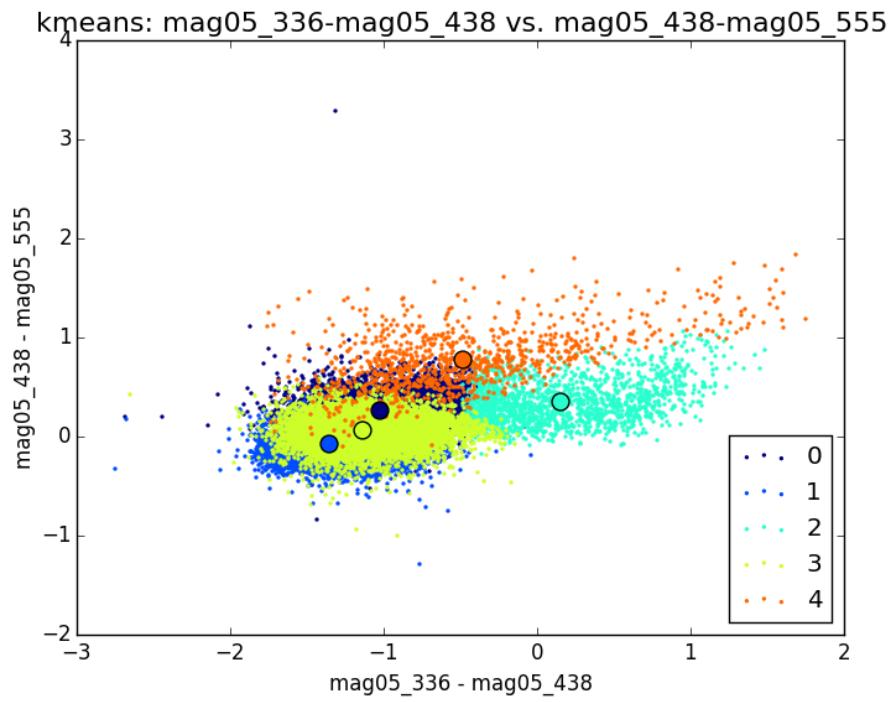


Figure 17: kmeans_3d_5cl_mag05_336-mag05_438vs mag05_438-mag05_555.png

kmeans results, Ncl=5

Cluster	Nobj	tScore	cScore	rms	AvgDist	MaxDist	MinDist	Stddev	Cen1
1	4826	0.331443771085	0.297840780104	0.8895	0.5777	4.2304	0.0022	0.8854	-1.02683692499
2	10548	0.331443771085	0.39145593871	0.8202	0.4212	2.8732	0.0010	0.5984	-1.35626801289
3	1623	0.331443771085	0.3148965476	0.6692	0.8221	2.9867	0.0051	0.485	0.151223043746
4	10969	0.331443771085	0.29774855466	0.7074	0.4471	2.7199	0.0010	0.6571	-1.13599316255
5	965	0.331443771085	0.254364665415	1.5943	1.1700	4.0665	0.0078	1.3123	-0.487475647668

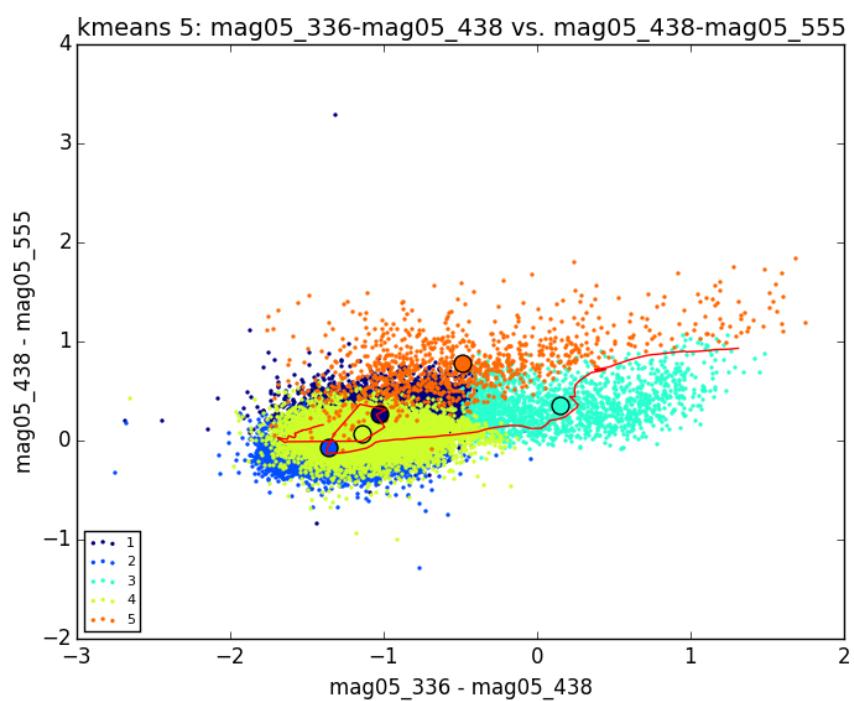


Figure 18: kmeans_3d_projection_5cl_mag05_336-mag05_438vsmag05_438-mag05_555.png

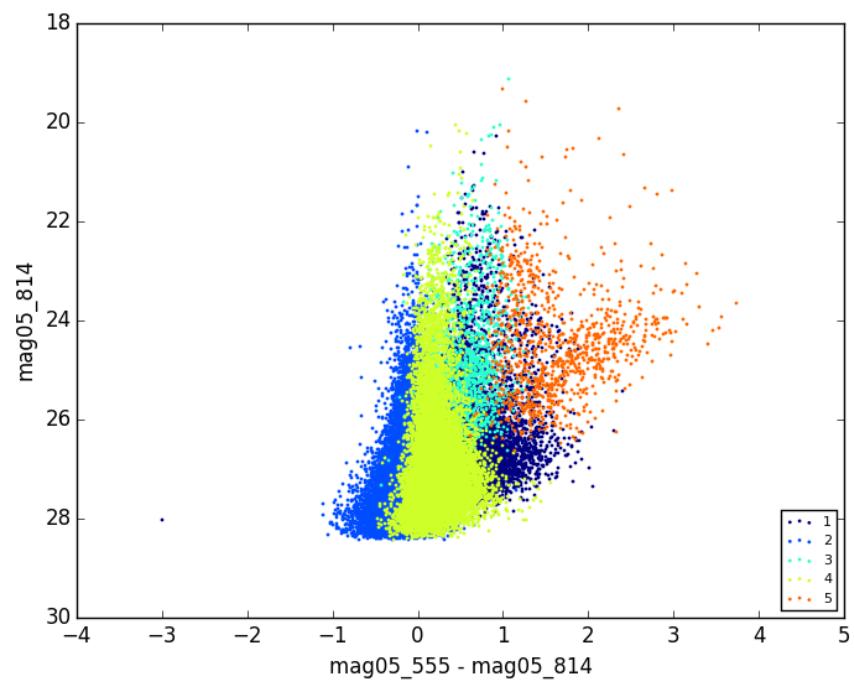


Figure 19: kmeans_CMD_5cl_mag05_555-mag05_814vsmag05_814.png

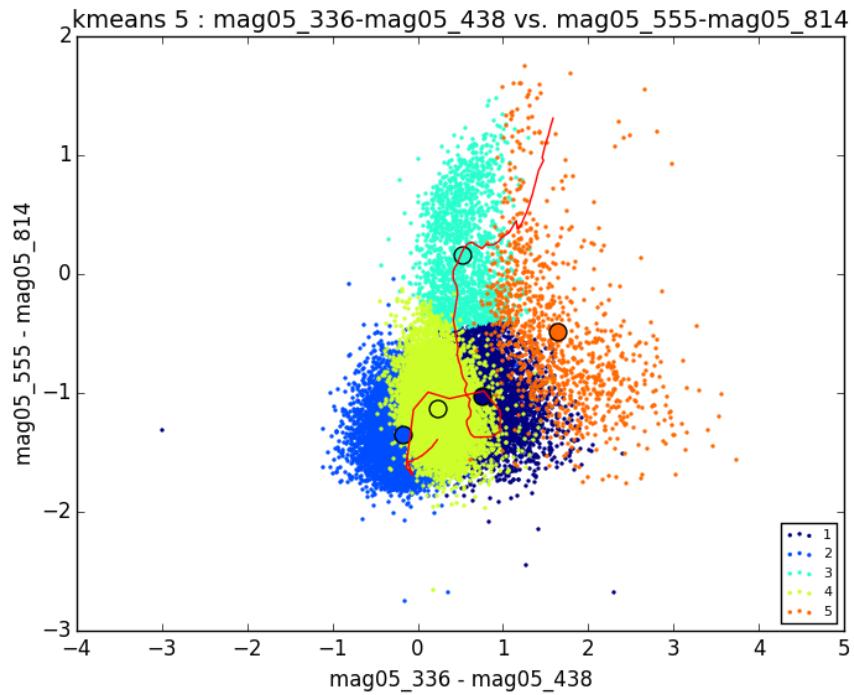


Figure 20: kmeans_base_color_5cl_mag05_336-mag05_438vsmag05_555-mag05_814.png

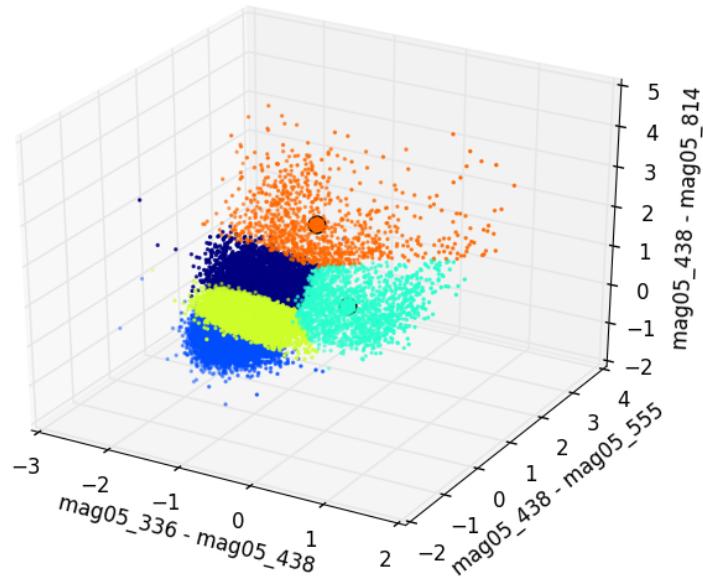


Figure 21: kmeans_3d_color_5cl_mag05_336-mag05_438vsmag05_438-mag05_555vsmag05_438-mag05_814.png

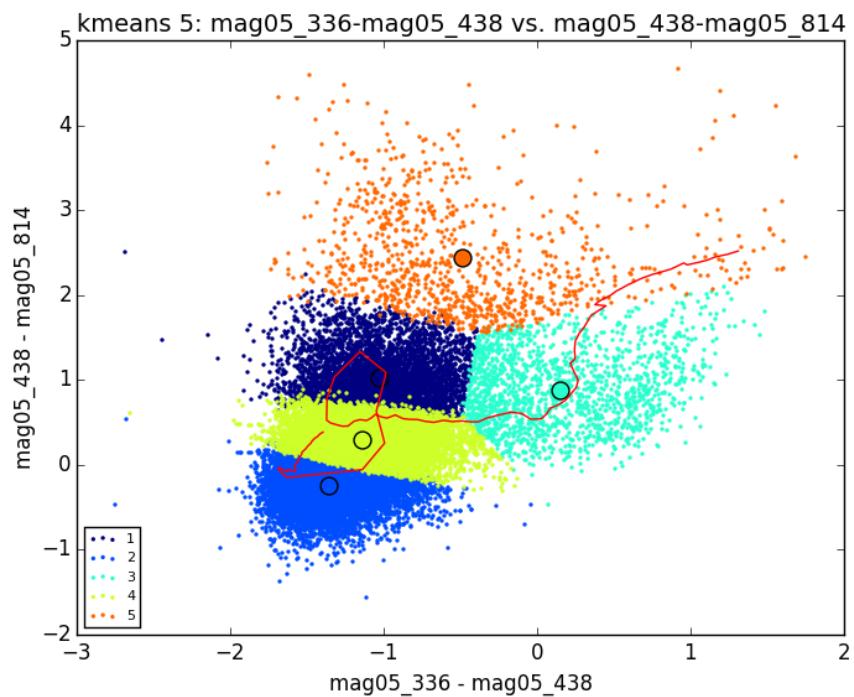


Figure 22: kmeans_3d_projection_5cl_mag05_336-mag05_438vsmag05_438-mag05_814.png

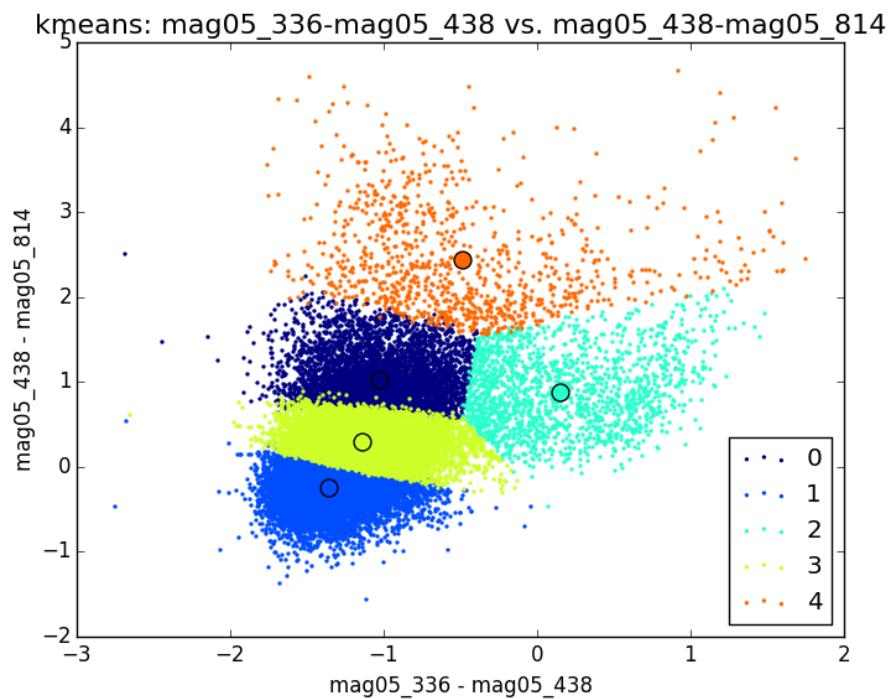


Figure 23: kmeans_3d_5cl_mag05_336-mag05_438vsmag05_438-mag05_814.png

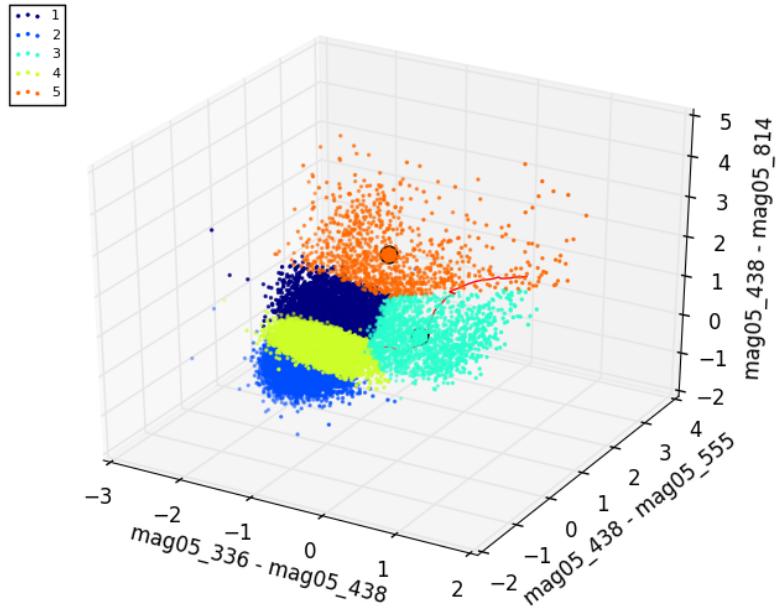


Figure 24: kmeans_3d_5cl_mag05_336-mag05_438vsmag05_438-mag05_555vsmag05_438-mag05_814.png

kmeans results, Ncl=6

Cluster	Nobj	tScore	cScore	rms	AvgDist	MaxDist	MinDist	Stdev	Cen1	Cen2
1	1424	0.315210163694	0.308149570207	0.7361	0.8340	3.1342	0.0051	0.4987	0.240583567416	0.0000
2	7783	0.315210163694	0.304204673212	0.7949	0.3761	2.0361	0.0014	0.7335	-1.30432686625	0.0000
3	4617	0.315210163694	0.291777697502	0.8885	0.5708	4.2304	0.0022	0.8828	-1.00701862681	0.0000
4	9482	0.315210163694	0.388342895228	0.8293	0.3955	2.2613	0.0010	0.5966	-1.37316104197	-0.0000
5	4717	0.315210163694	0.221903236192	0.5379	0.4405	1.8658	0.0010	0.4979	-0.842705321179	0.0000
6	908	0.315210163694	0.260784977097	1.6134	1.1417	4.7998	0.0078	1.3409	-0.543363436123	0.0000

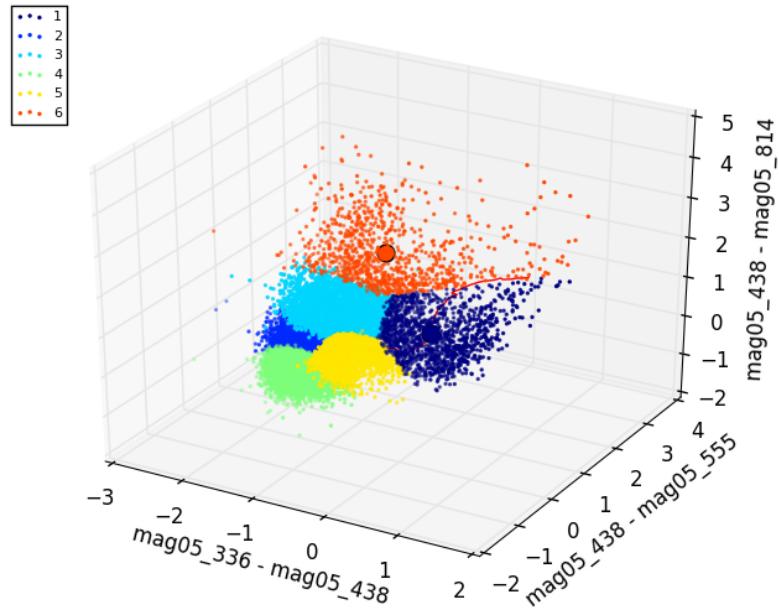


Figure 25: kmeans_3d_6cl_mag05_336-mag05_438vsmag05_438-mag05_555vsmag05_438-mag05_814.png

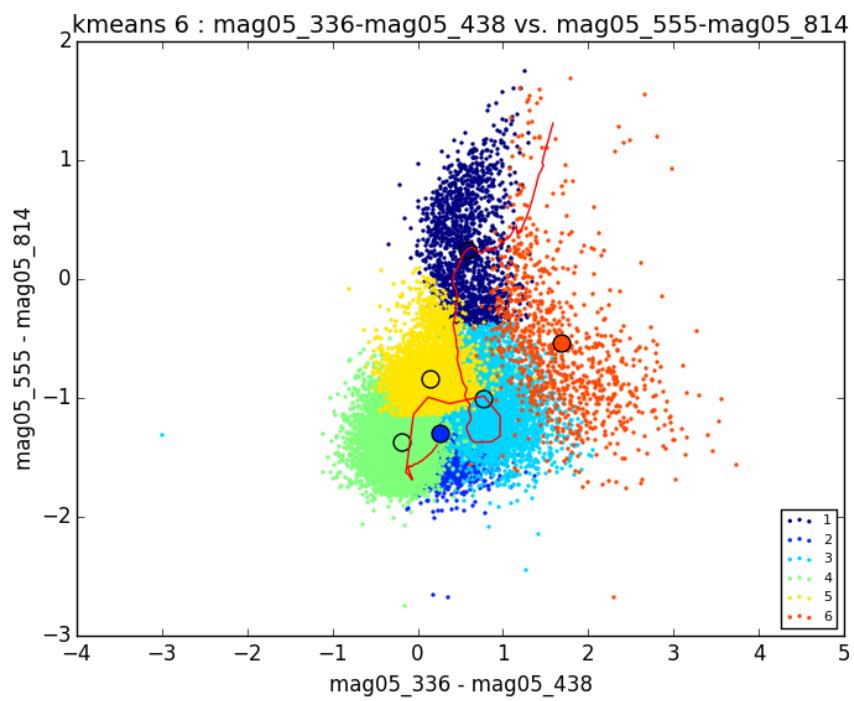


Figure 26: kmeans_base_color_6cl_mag05_336-mag05_438vsmag05_555-mag05_814.png

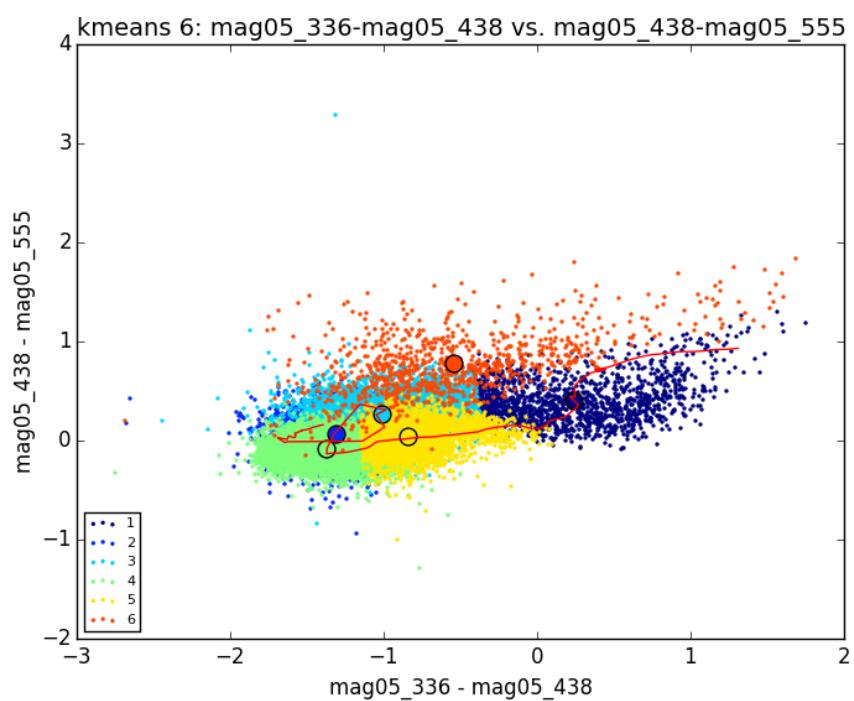


Figure 27: kmeans_3d_projection_6cl_mag05_336-mag05_438vsmag05_438-mag05_555.png

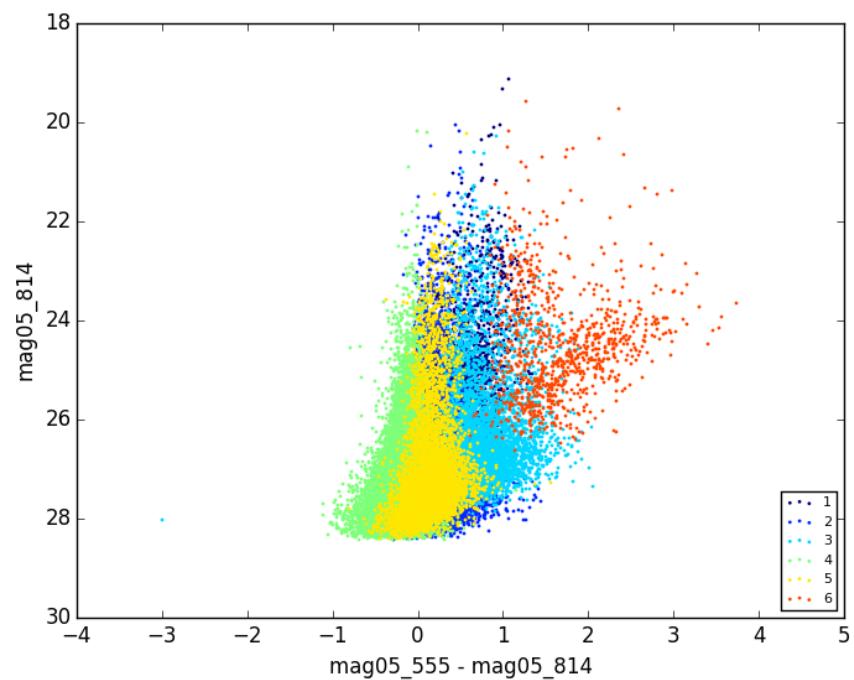


Figure 28: kmeans_CMD_6cl_mag05_555-mag05_814vsmag05_814.png

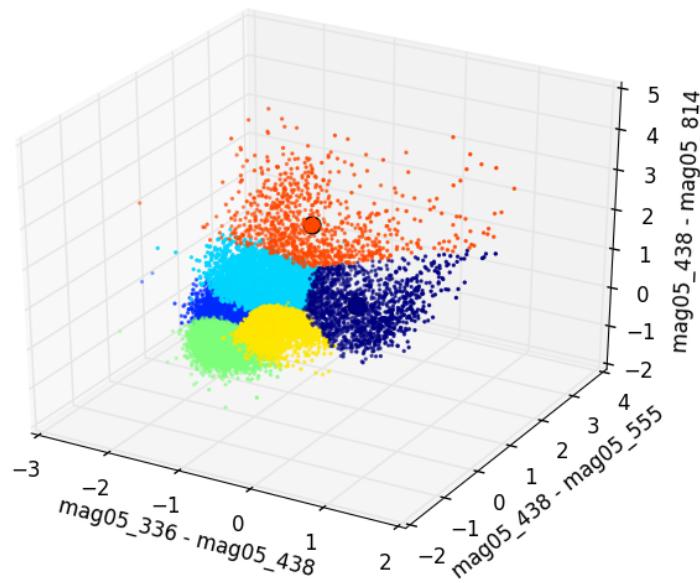


Figure 29: kmeans_3d_color_6cl_mag05_336-mag05_438vsmag05_438-mag05_555vsmag05_438-mag05_814.png

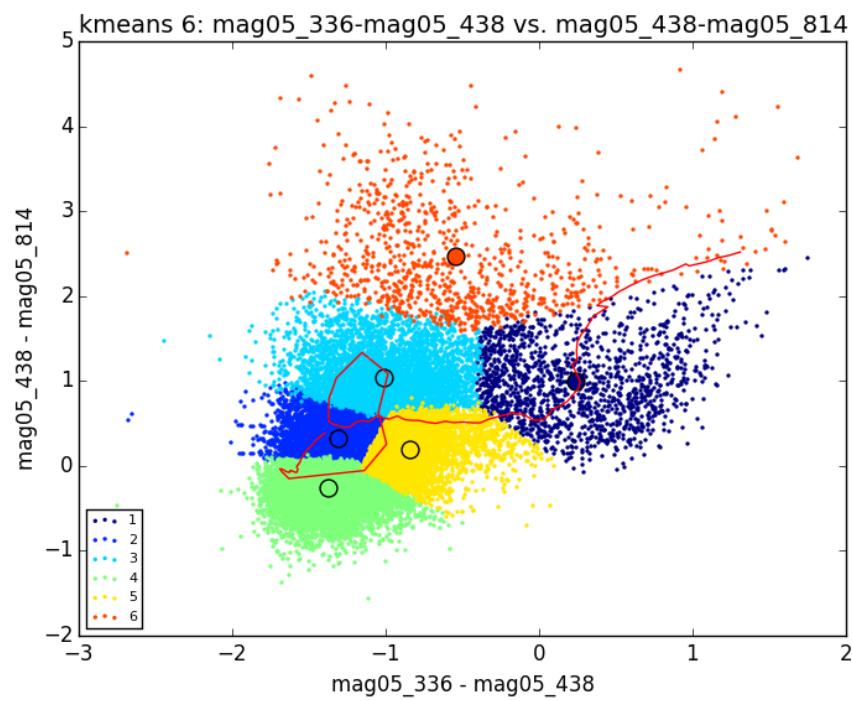


Figure 30: kmeans_3d_projection_6cl_mag05_336-mag05_438vsmag05_438-mag05_814.png

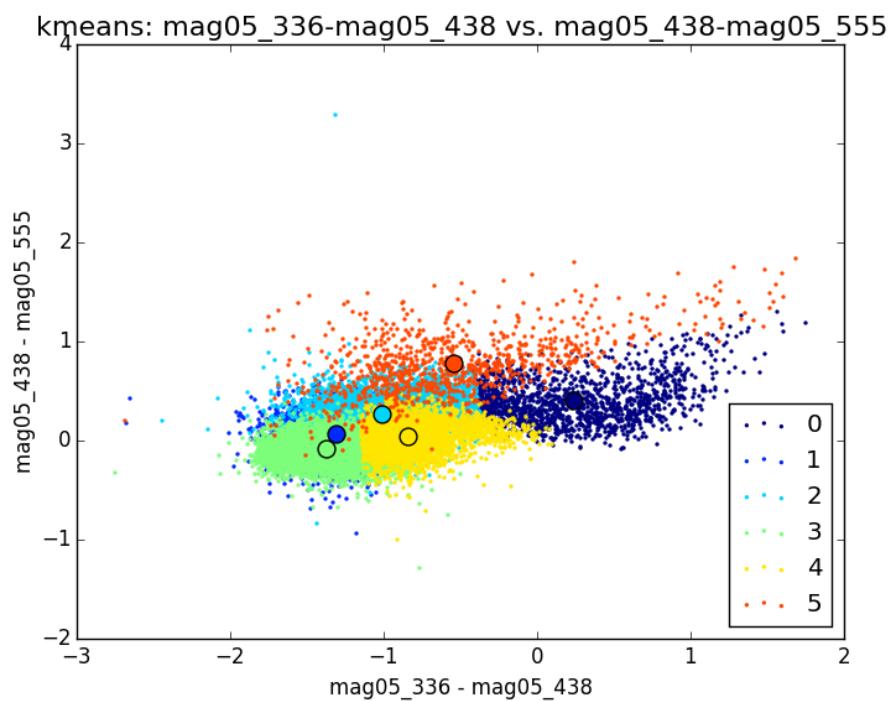


Figure 31: kmeans_3d_6cl_mag05_336-mag05_438vsmag05_438-mag05_555.png

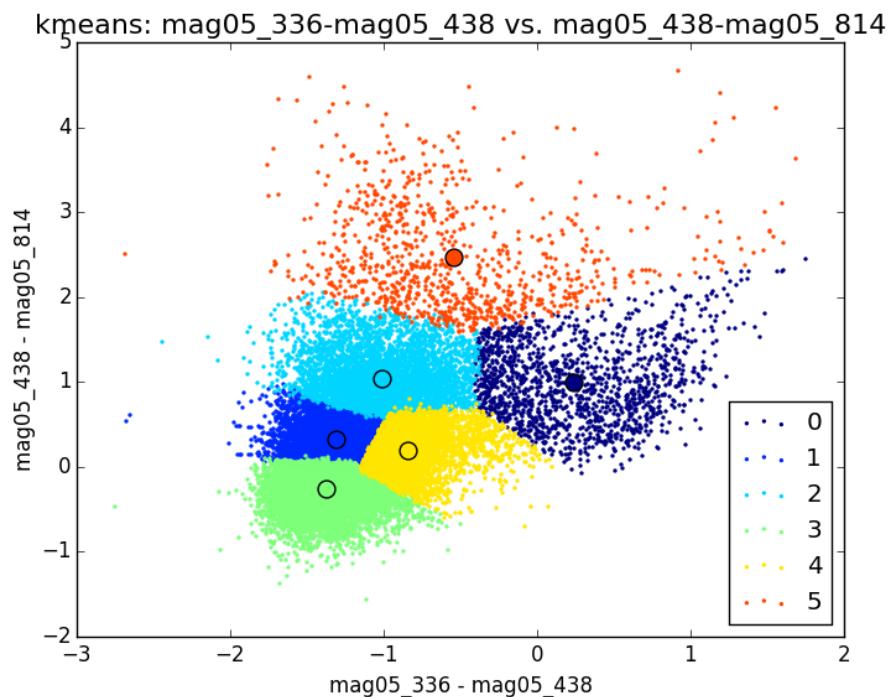


Figure 32: kmeans_3d_6cl_mag05_336-mag05_438vsmag05_438-mag05_814.png

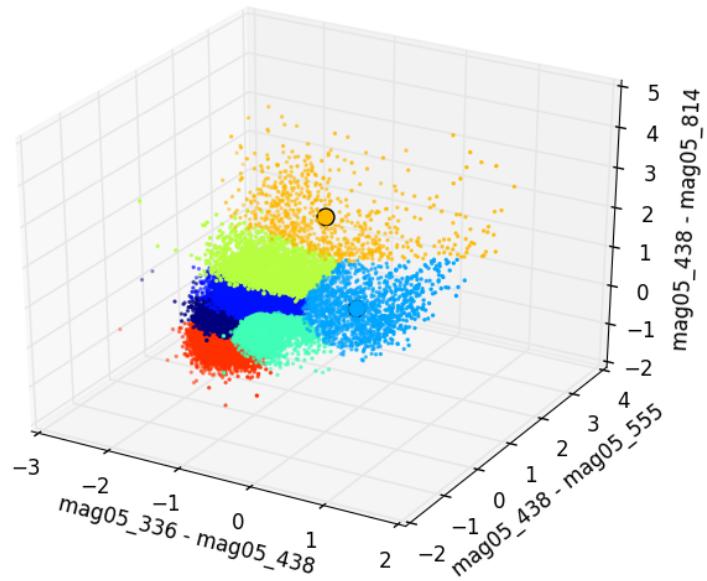


Figure 33: kmeans_3d_color_7cl_mag05_336-mag05_438vsmag05_438-mag05_555vsmag05_438-mag05_814.png

kmeans results, Ncl=7

Cluster	Nobj	tScore	cScore	rms	AvgDist	MaxDist	MinDist	Stdev	Cen1	Cen2
1	7299	0.294121849641	0.319075202808	0.7992	0.3310	2.0361	0.0014	0.7008	-1.34923167557	0.00000000000
2	5735	0.294121849641	0.269181762819	0.7643	0.4391	1.7814	0.0014	0.7604	-1.07211037489	0.00000000000
3	1360	0.294121849641	0.33217758778	0.6872	0.7962	2.6386	0.0051	0.4631	0.250133823529	0.00000000000
4	4292	0.294121849641	0.229081677136	0.5420	0.4100	1.8658	0.0010	0.4701	-0.878662395154	0.00000000000
5	2335	0.294121849641	0.242457950557	1.0214	0.6306	4.0391	0.0042	0.9837	-0.924374304069	0.00000000000
6	697	0.294121849641	0.22402316526	1.7093	1.1918	3.9230	0.0078	1.3626	-0.40050071736	0.00000000000
7	7213	0.294121849641	0.343724993555	0.8487	0.3714	2.2613	0.0010	0.5896	-1.39774338001	-0.00000000000

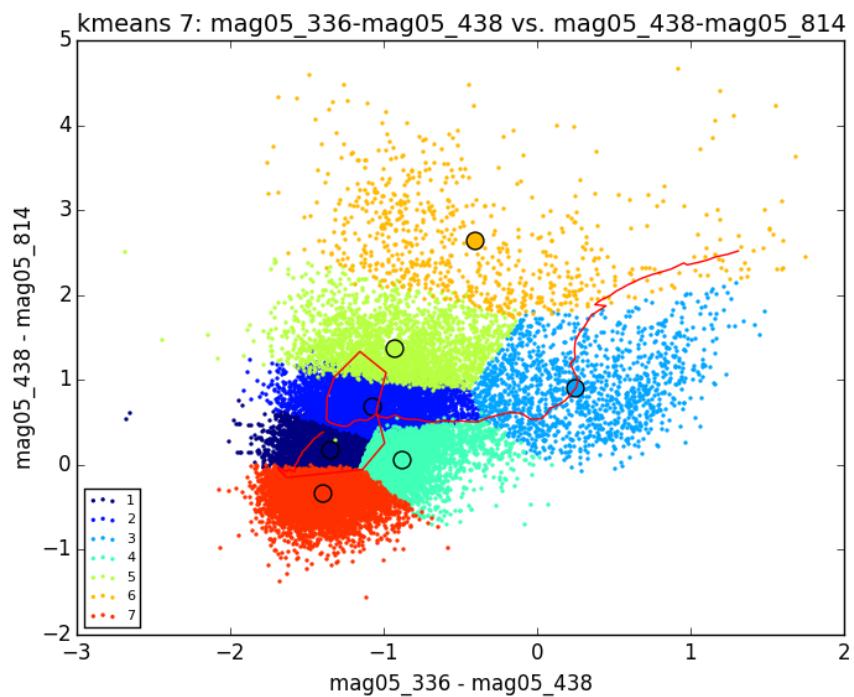


Figure 34: kmeans_3d_projection_7cl_mag05_336-mag05_438vsmag05_438-mag05_814.png

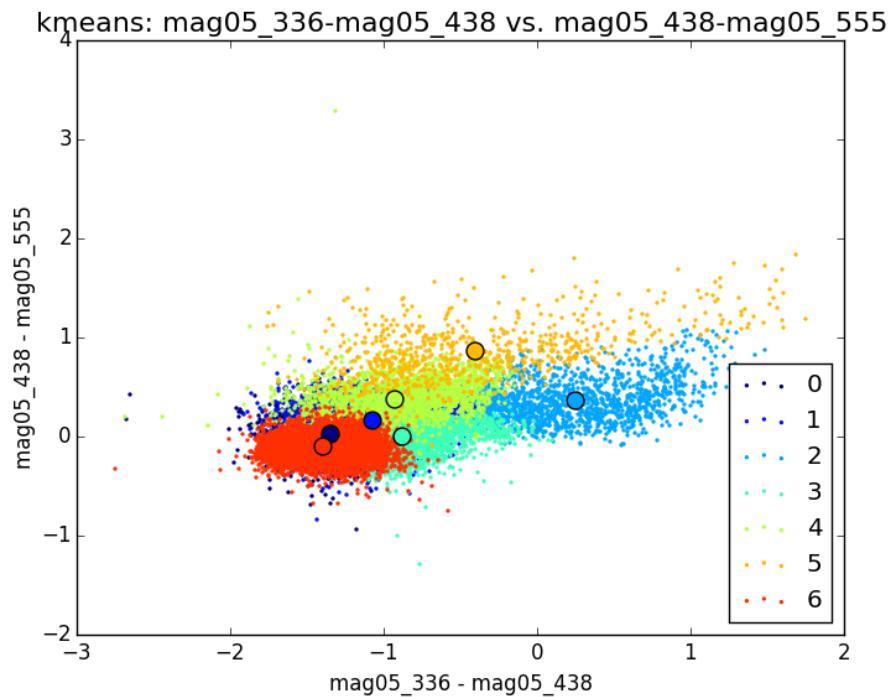


Figure 35: kmeans_3d_7cl_mag05_336-mag05_438vsmag05_438-mag05_555.png

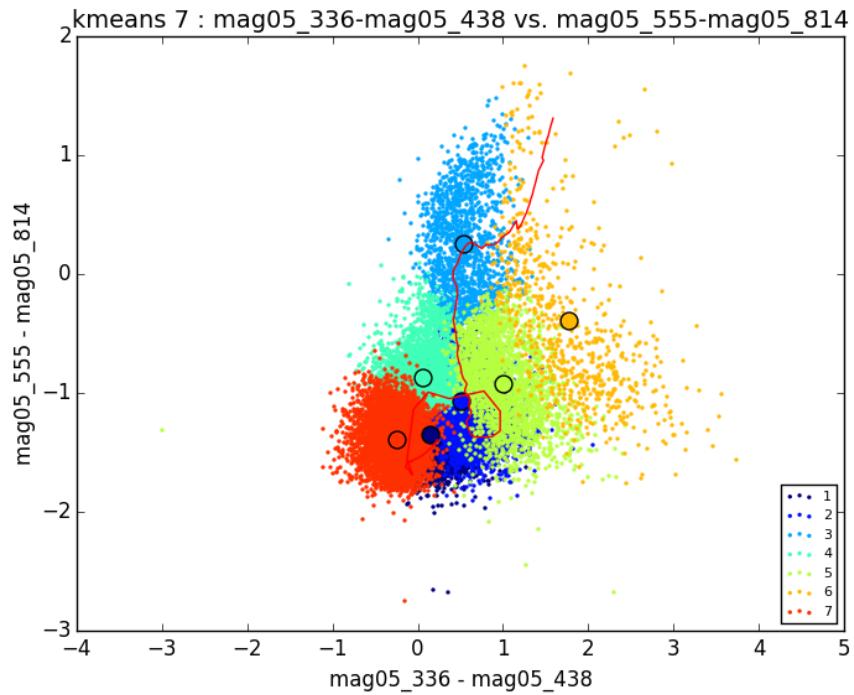


Figure 36: kmeans_base_color_7cl_mag05_336-mag05_438vsmag05_555-mag05_814.png

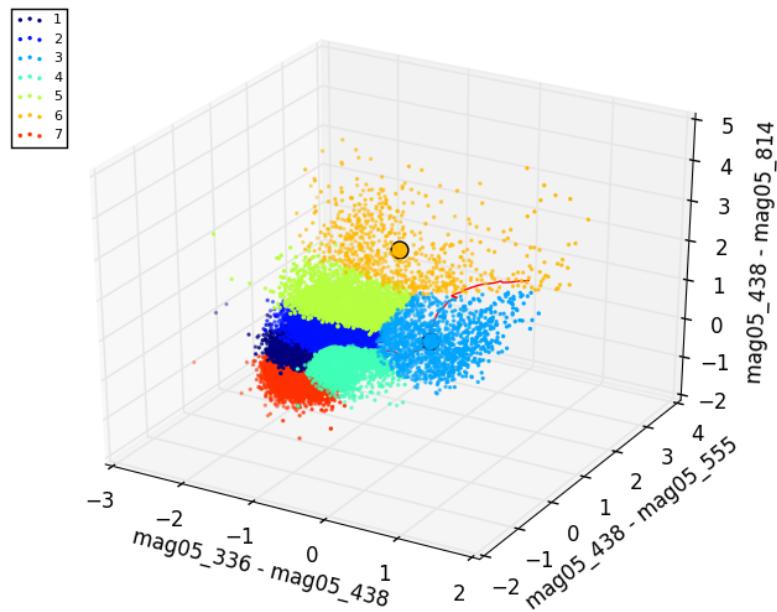


Figure 37: kmeans_3d_7cl_mag05_336-mag05_438vsmag05_438-mag05_555vsmag05_438-mag05_814.png

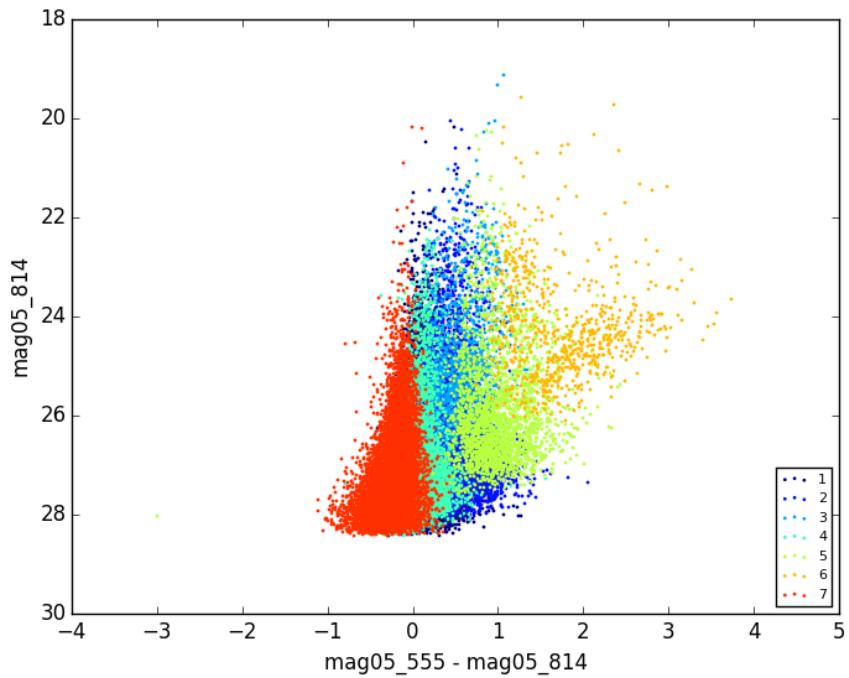


Figure 38: kmeans_CMD_7cl_mag05_555-mag05_814vsmag05_814.png

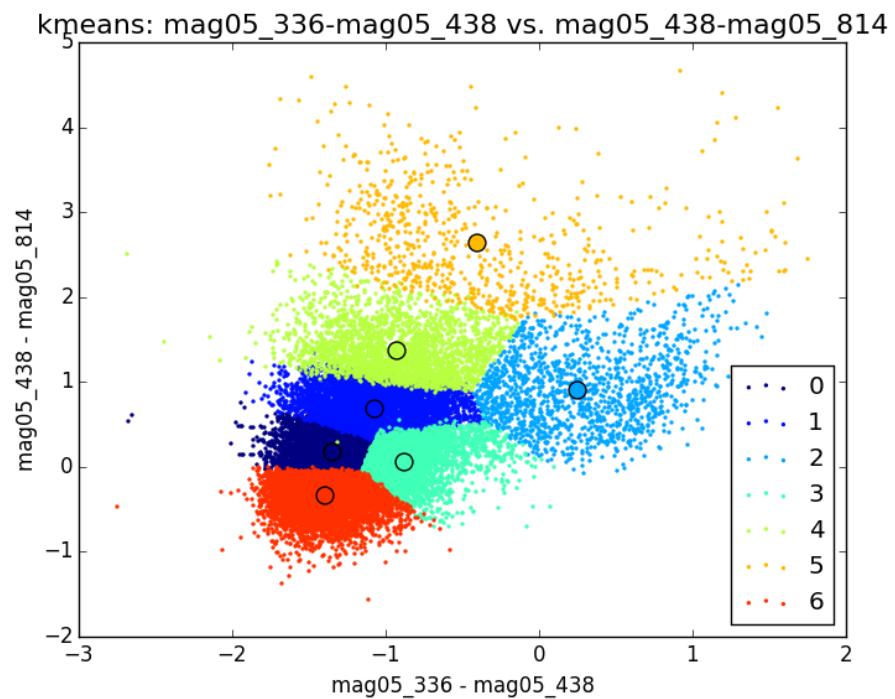


Figure 39: kmeans_3d_7cl_mag05_336-mag05_438vsmag05_438-mag05_814.png

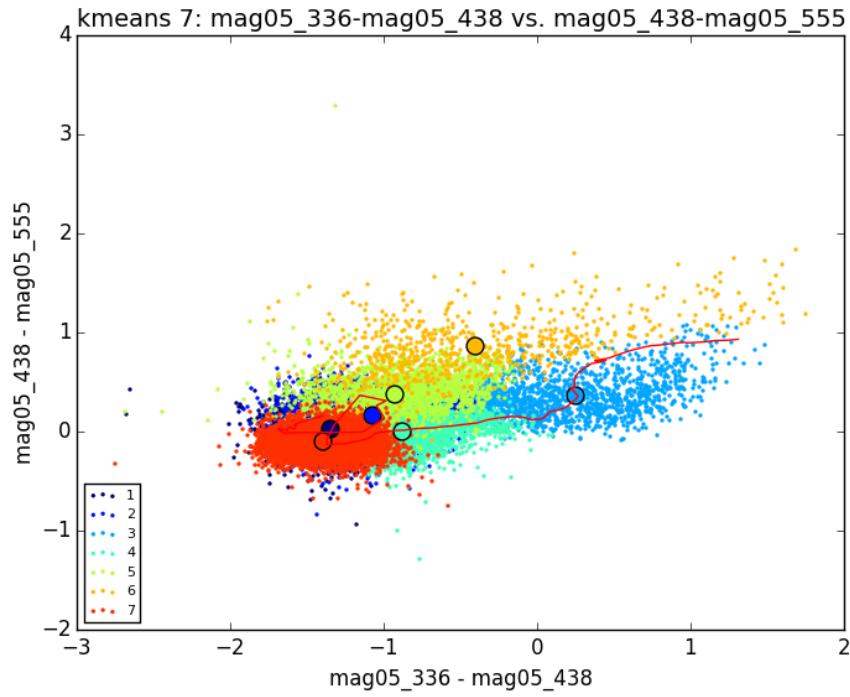


Figure 40: kmeans_3d_projection_7cl_mag05_336-mag05_438vs mag05_438-mag05_555.png

kmeans results, Ncl=8

Cluster	Nobj	tScore	cScore	rms	AvgDist	MaxDist	MinDist	Stdev	Cen1
1	7059	0.293335905684	0.315045637723	0.8085	0.3223	2.0361	0.0010	0.698	-1.37128941776
2	490	0.293335905684	0.348413751527	1.8126	0.9753	4.5495	0.0135	1.5504	-0.799181632653
3	588	0.293335905684	0.269177339275	1.2160	0.8942	3.5248	0.0078	0.7128	0.408260204082
4	2590	0.293335905684	0.239252195932	0.9958	0.6102	3.9652	0.0042	0.9654	-0.940372972973
5	5966	0.293335905684	0.274754697431	0.7601	0.4232	1.7814	0.0014	0.7528	-1.09731495139
6	4458	0.293335905684	0.241299677038	0.5590	0.3874	1.8658	0.0010	0.4766	-0.918361597129
7	6508	0.293335905684	0.334332440072	0.8537	0.3655	2.2613	0.0010	0.5853	-1.40149001229
8	1272	0.293335905684	0.332701041159	0.5159	0.6521	1.7397	0.0051	0.3918	0.0640377358491

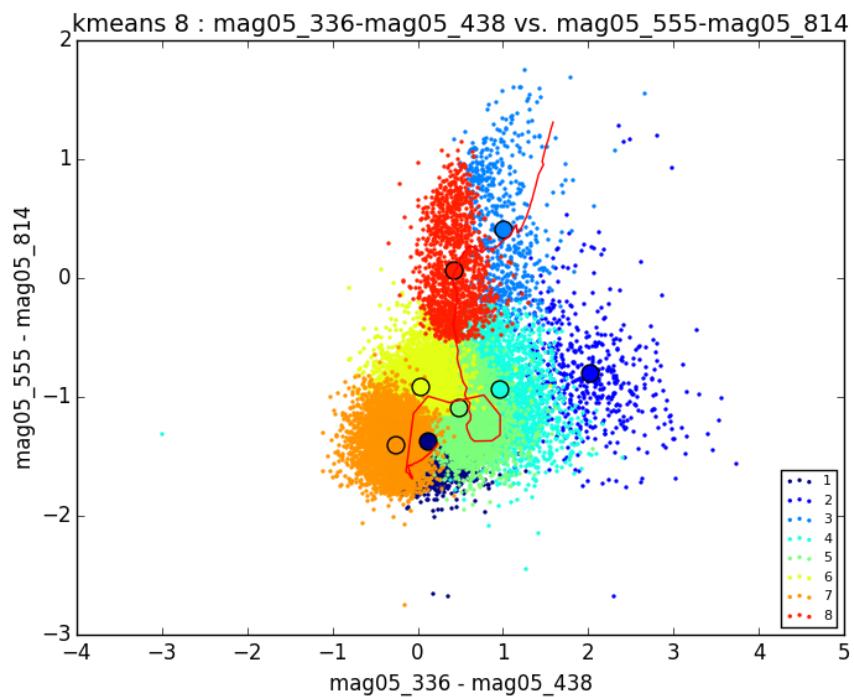


Figure 41: kmeans_base_color_8cl_mag05_336-mag05_438vsmag05_555-mag05_814.png

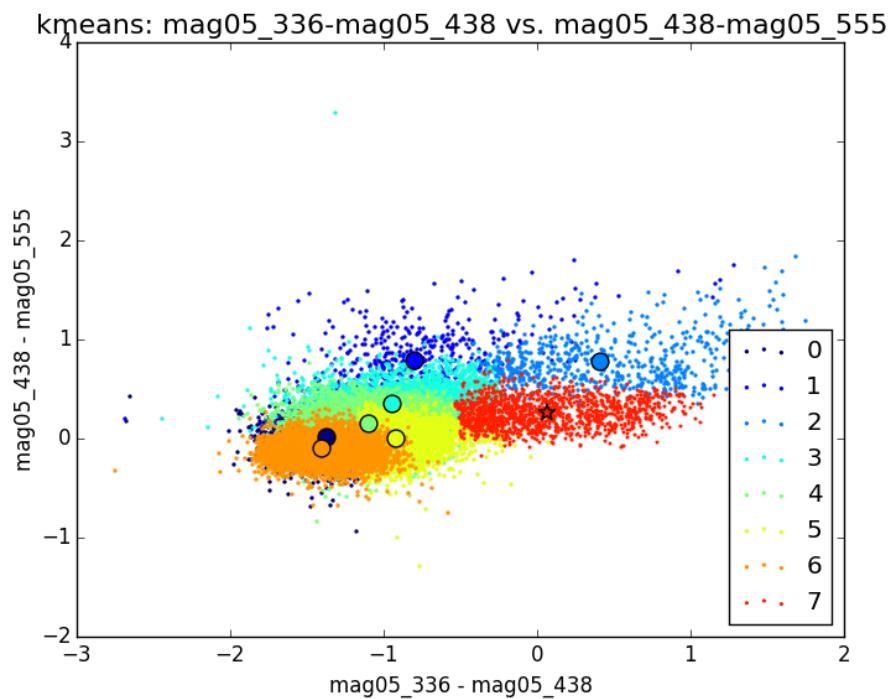


Figure 42: kmeans_3d_8cl_mag05_336-mag05_438vsmag05_438-mag05_555.png

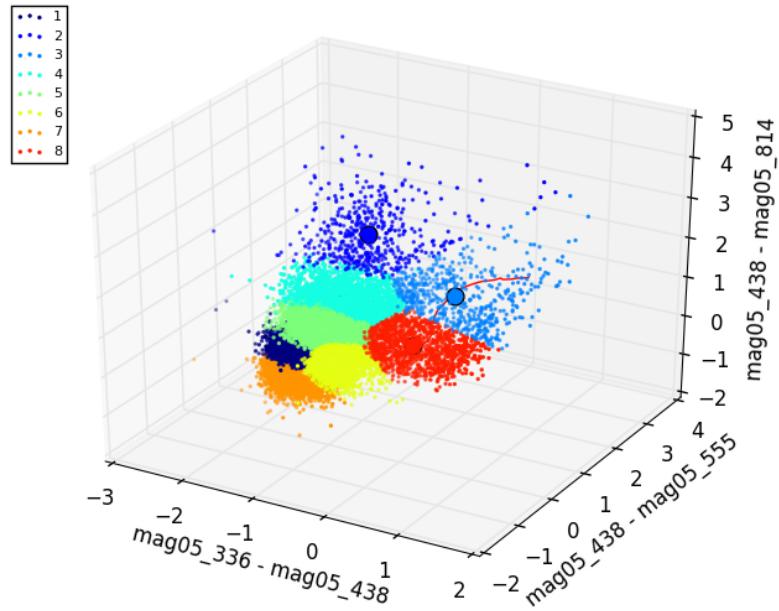


Figure 43: kmeans_3d_8cl_mag05_336-mag05_438vsmag05_438-mag05_555vsmag05_438-mag05_814.png

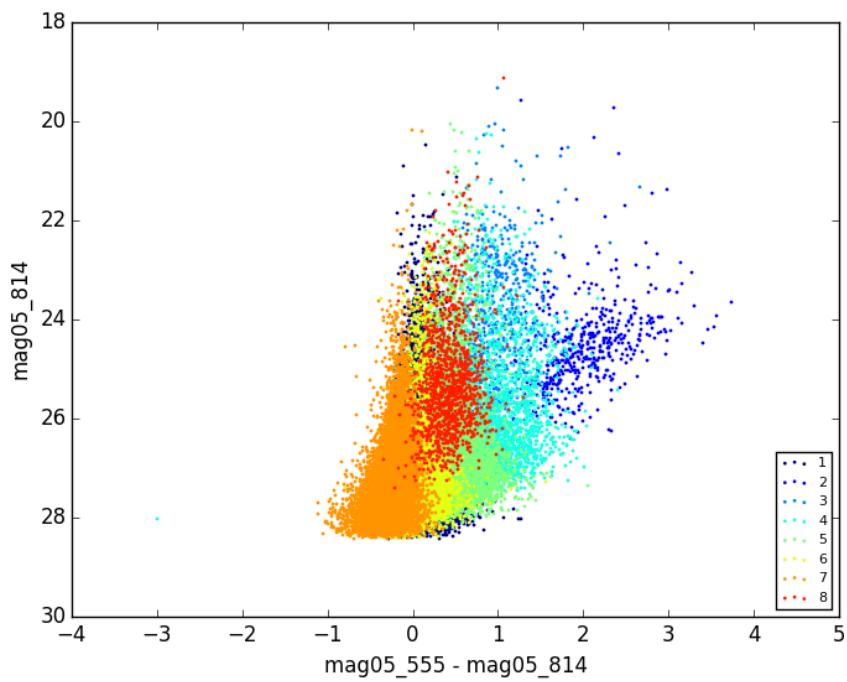


Figure 44: kmeans_CMD_8cl_mag05_555-mag05_814vsmag05_814.png

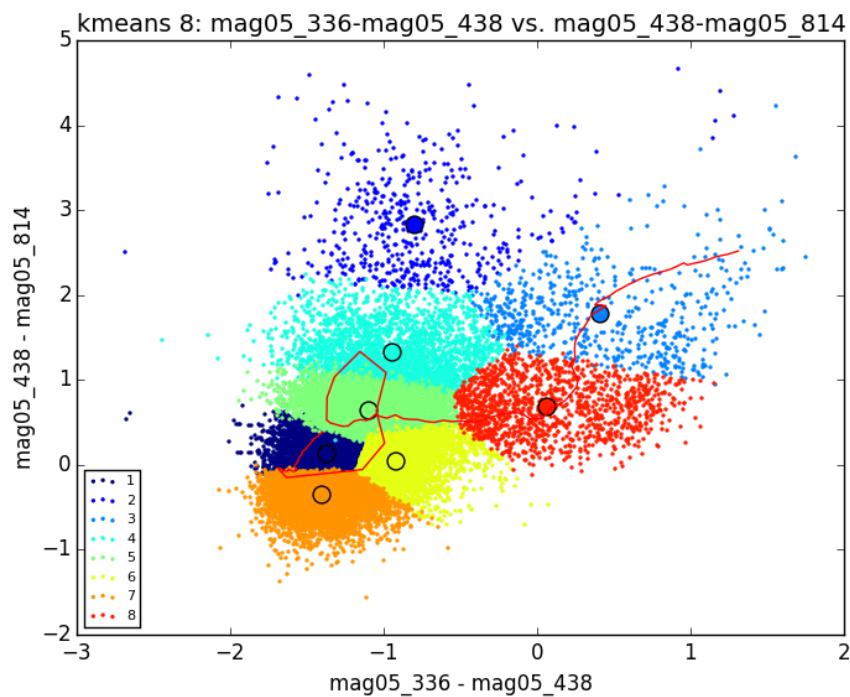


Figure 45: kmeans_3d_projection_8cl_mag05_336-mag05_438vsmag05_438-mag05_814.png

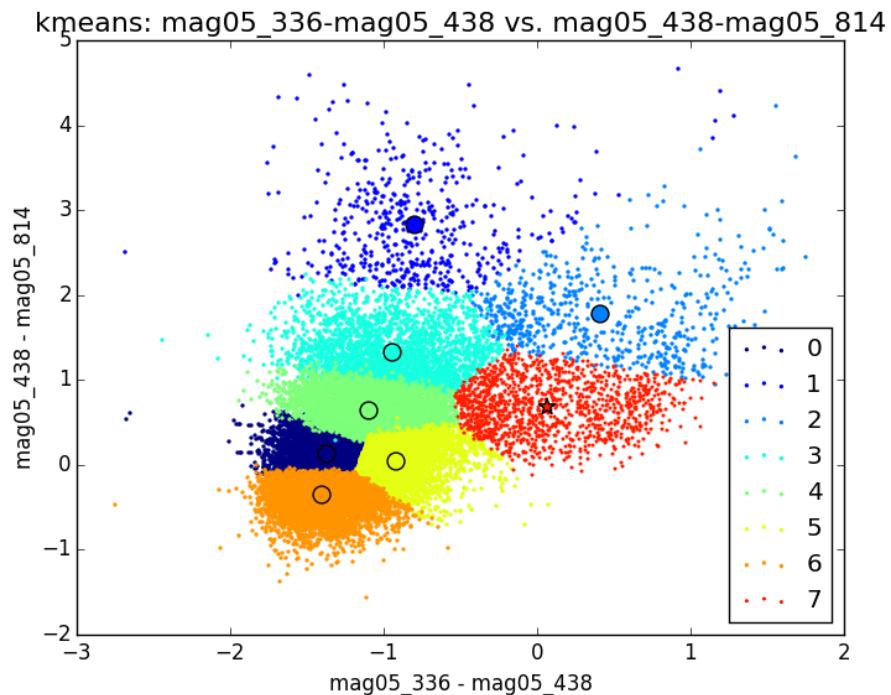


Figure 46: kmeans_3d_8cl_mag05_336-mag05_438vsmag05_438-mag05_814.png

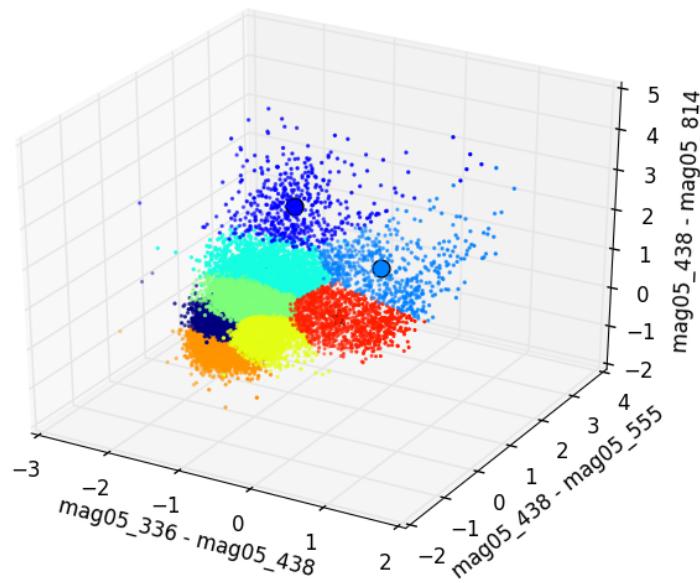


Figure 47: kmeans_3d_color_8cl_mag05_336-mag05_438vsmag05_438-mag05_555vsmag05_438-mag05_814.png

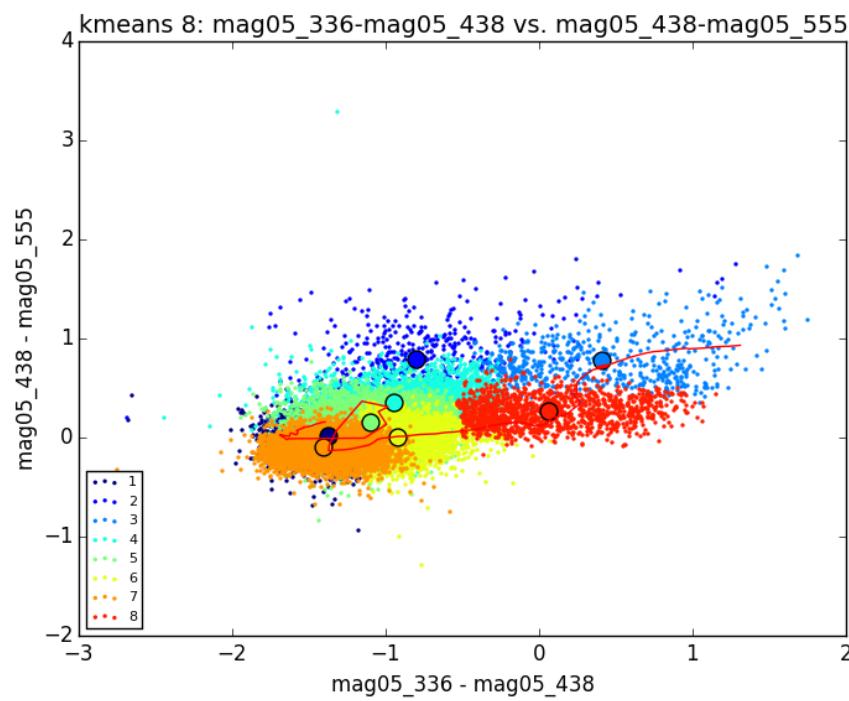


Figure 48: kmeans_3d_projection_8cl_mag05_336-mag05_438vsmag05_438-mag05_555.png

Meanshift results

Bandw	Nclust	score	TotObj	N1	N2	N3	N4	N5	N6	N7	N8	N9	N10
0.6500	6	0.19369264961	28931	27946	571	327	73	13	1	0	0	0	0
0.5500	10	0.198886135823	28931	27453	806	341	206	84	17	11	9	3	1
0.6000	6	0.192158277363	28931	27927	581	330	79	13	1	0	0	0	0
0.6500	6	0.19369264961	28931	27946	571	327	73	13	1	0	0	0	0
0.7000	6	0.185967960026	28931	27951	565	325	71	18	1	0	0	0	0
0.7500	4	0.584441651816	28931	28039	571	320	1	0	0	0	0	0	0

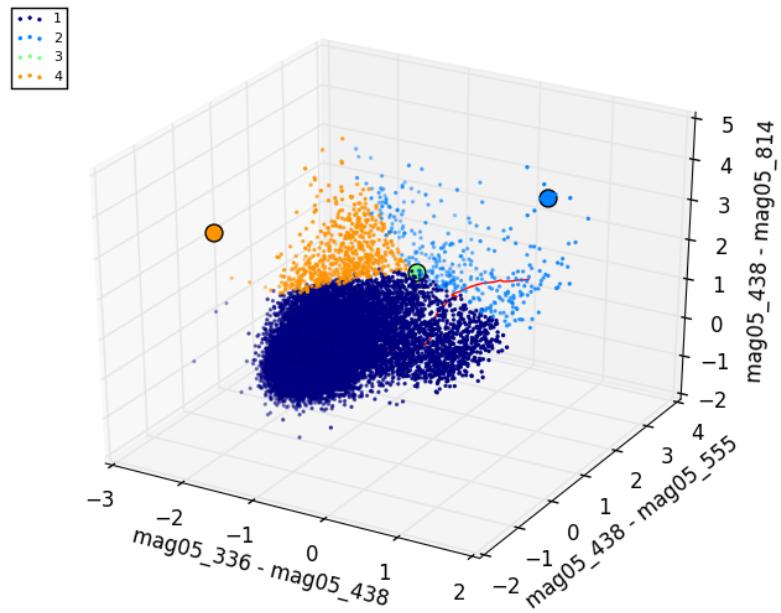


Figure 49: meanshift_3d_4cl_mag05_336-mag05_438vsmag05_438-mag05_555vsmag05_438-mag05_814.png

meanshift results, Ncl=4

Cluster	Nobj	tScore	cScore	rms	AvgDist	MaxDist	MinDist	Stdev	Cen1	Cen2
1	28039	0.584441651816	0.5903170353	0.7820	0.8551	4.3824	0.0010	0.7343	-1.24557834025	0.0
2	320	0.584441651816	0.286974843938	1.7286	1.2481	4.0647	0.0135	1.1018	1.25225	0.0
3	1	0.584441651816	0.0	N/A	N/A	N/A	N/A	1.9084	-1.317	0.0
4	571	0.584441651816	0.463660465546	1.6082	0.9022	3.5511	0.0100	1.4814	-2.682	0.0

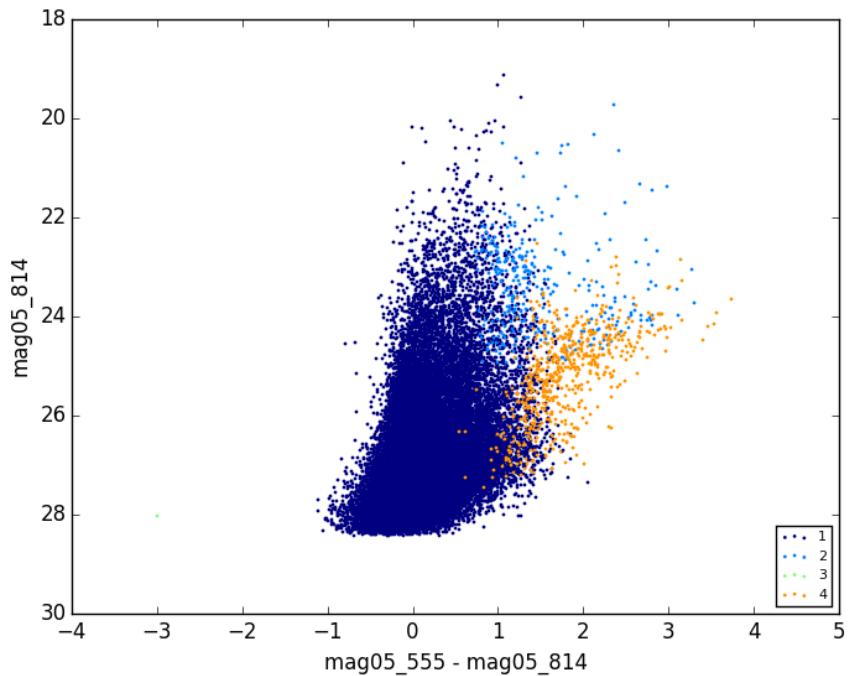


Figure 50: meanshift_CMD_4cl_mag05_555-mag05_814vsmag05_814.png

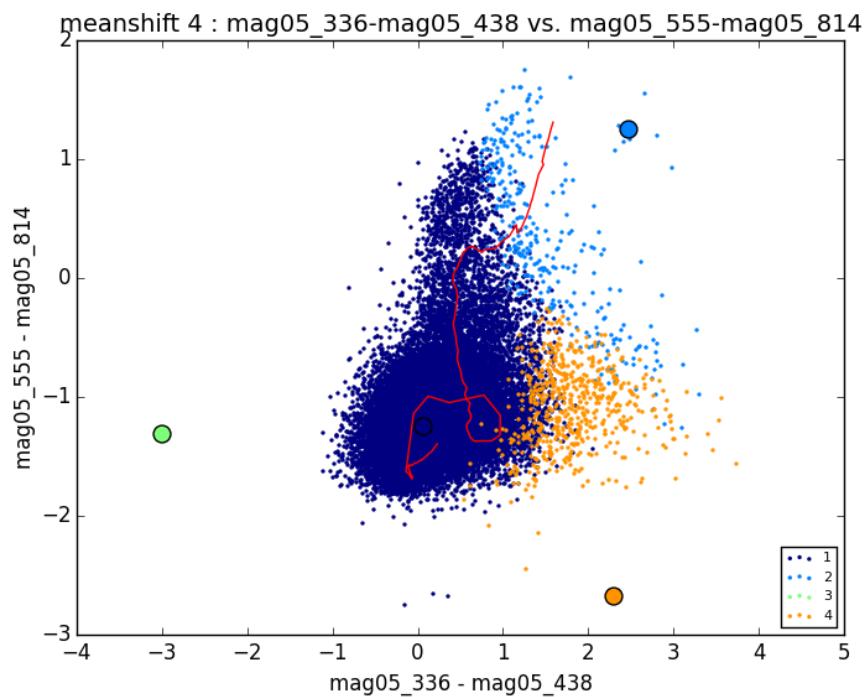


Figure 51: meanshift_base_color_4cl_mag05_336-mag05_438vsmag05_555-mag05_814.png

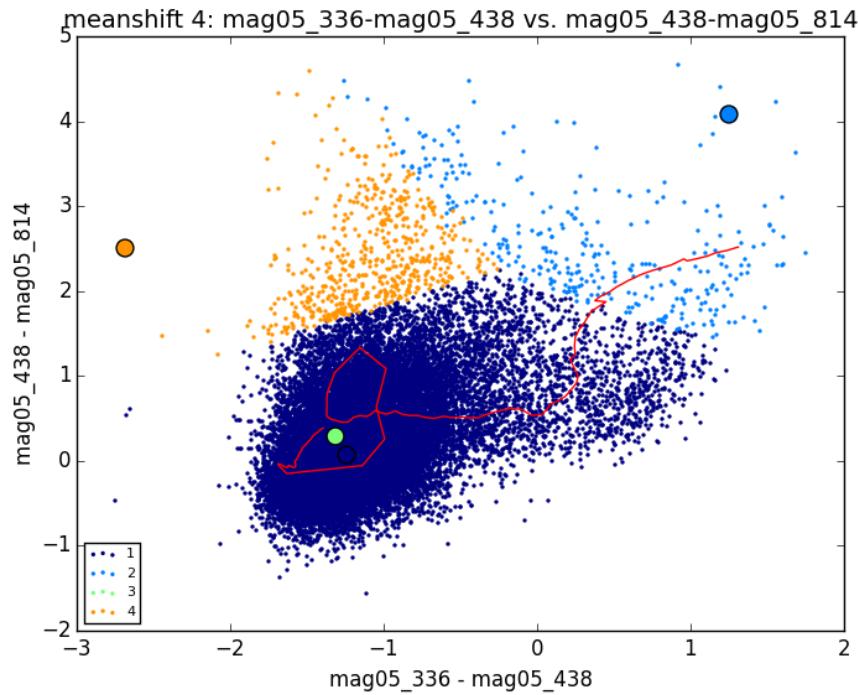


Figure 52: meanshift_3d_projection_4cl_mag05_336-mag05_438vsmag05_438-mag05_814.png

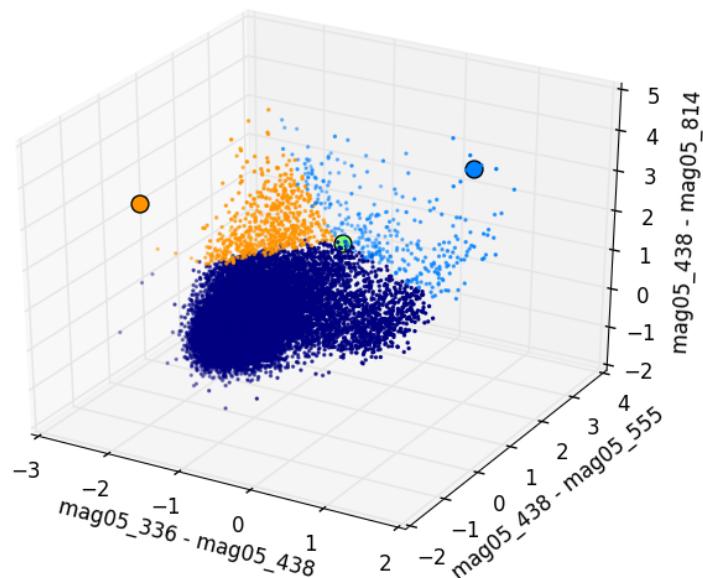


Figure 53: meanshift_3d_color_4cl_mag05_336-mag05_438vsmag05_438-mag05_555vsmag05_438-mag05_814.png

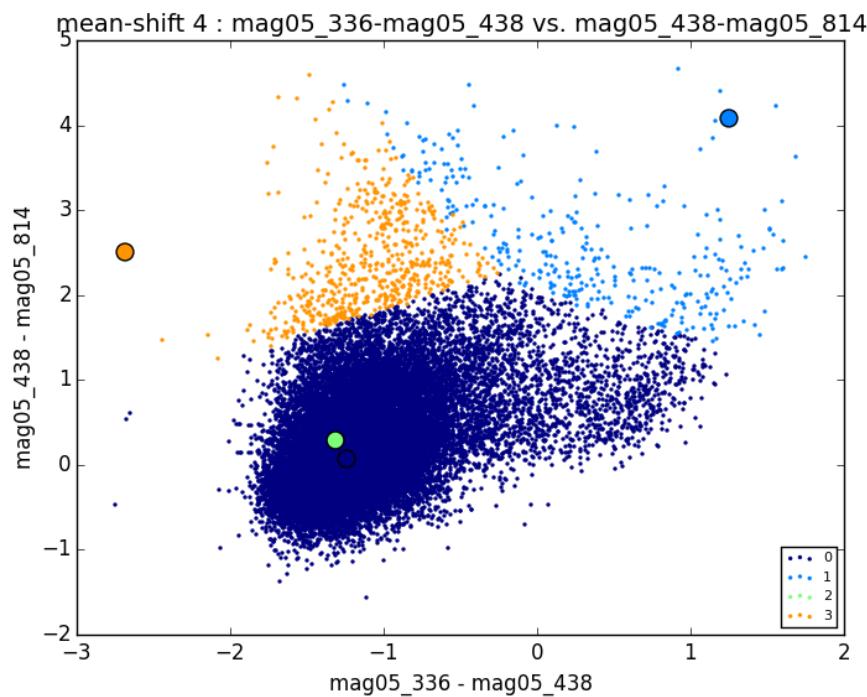


Figure 54: meanshift_3d_color_4cl_mag05_336-mag05_438vsmag05_438-mag05_814.png

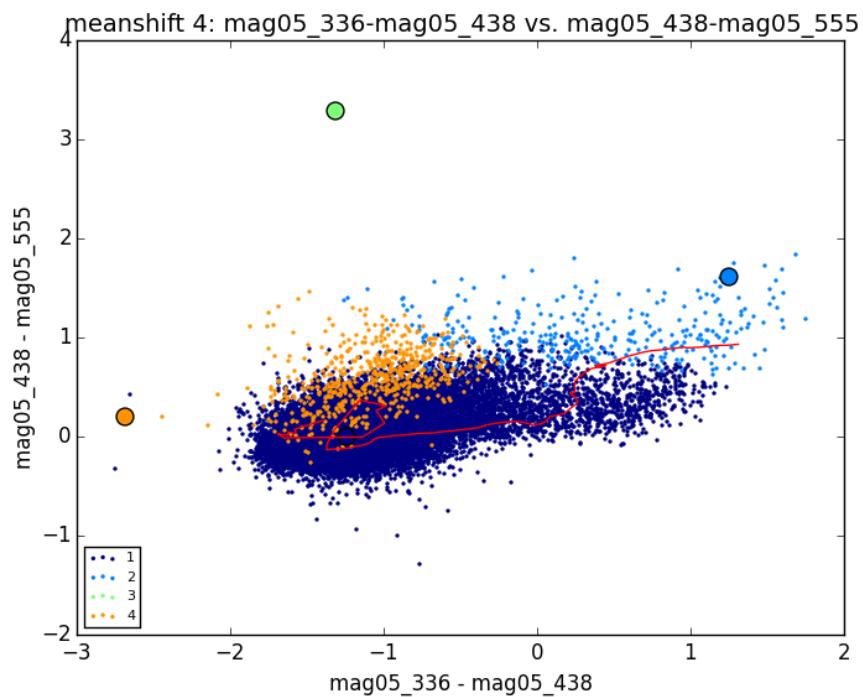


Figure 55: meanshift_3d_projection_4cl_mag05_336-mag05_438vsmag05_438-mag05_555.png

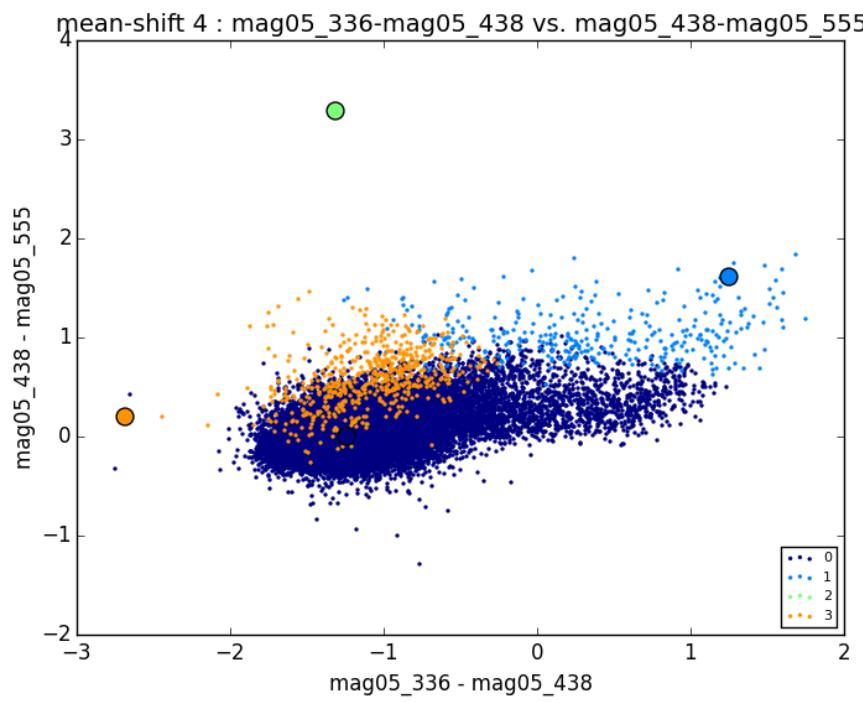


Figure 56: meanshift_3d_color_4cl_mag05_336-mag05_438vsmag05_438-mag05_555.png

meanshift results, Ncl=6

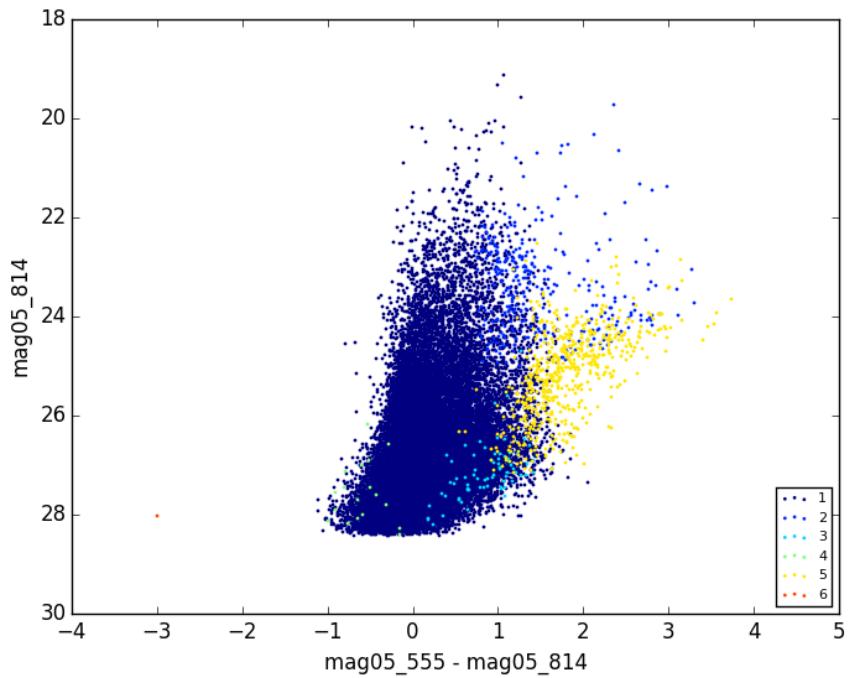


Figure 57: meanshift_CMD_6cl_mag05_555-mag05_814vsmag05_814.png

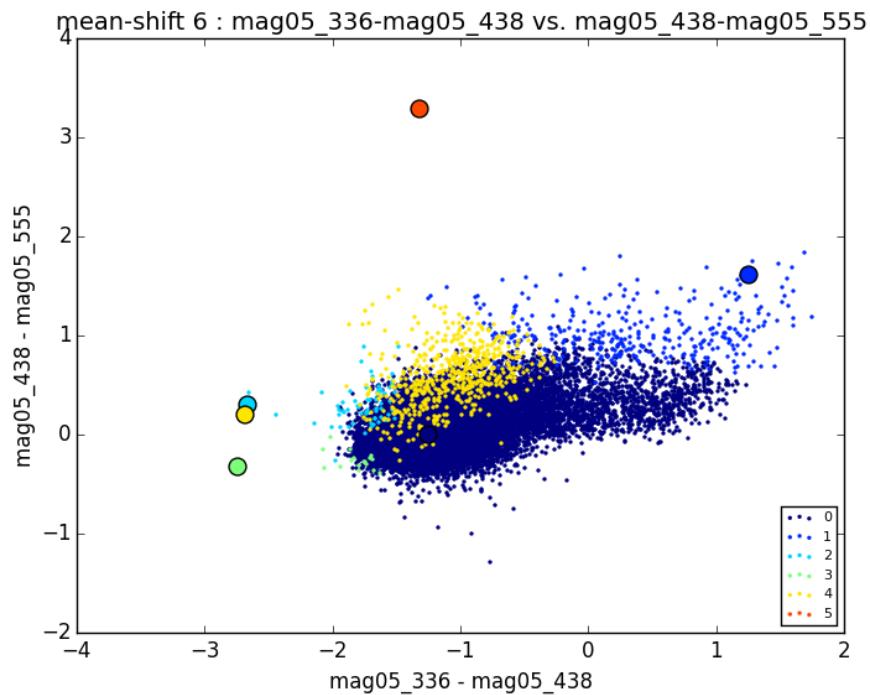


Figure 58: meanshift_3d_color_6cl_mag05_336-mag05_438vsmag05_438-mag05_555.png

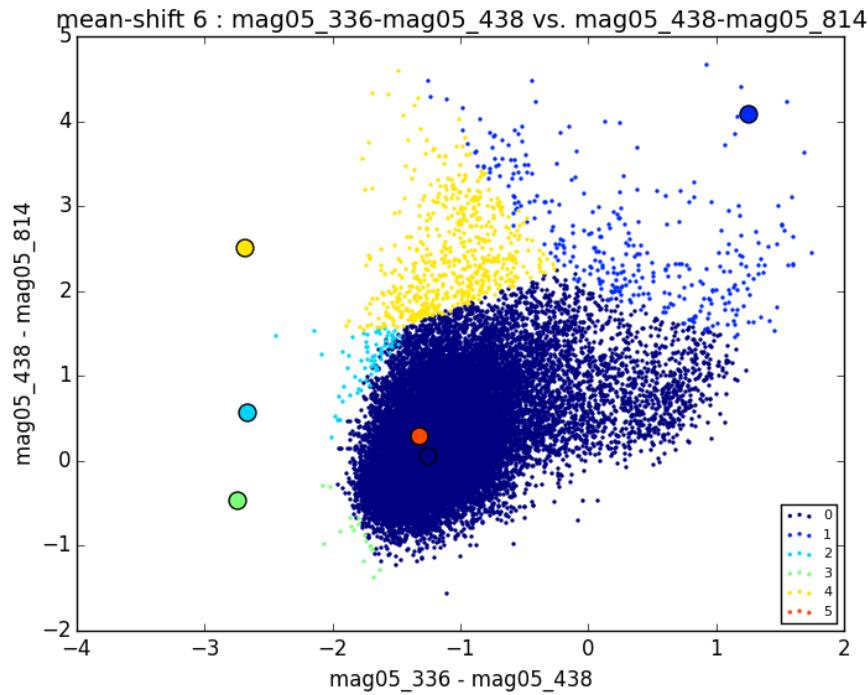


Figure 59: meanshift_3d_color_6cl_mag05_336-mag05_438vsmag05_438-mag05_814.png

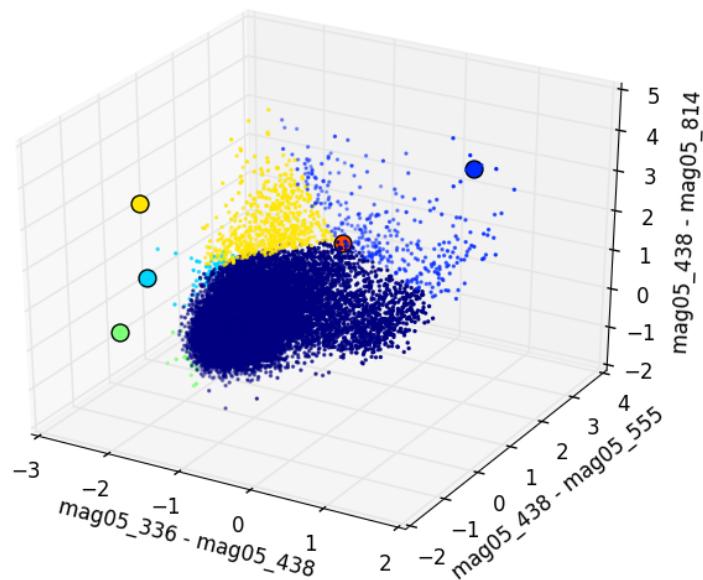


Figure 60: meanshift_3d_color_6cl_mag05_336-mag05_438vsmag05_438-mag05_555vsmag05_438-mag05_814.png

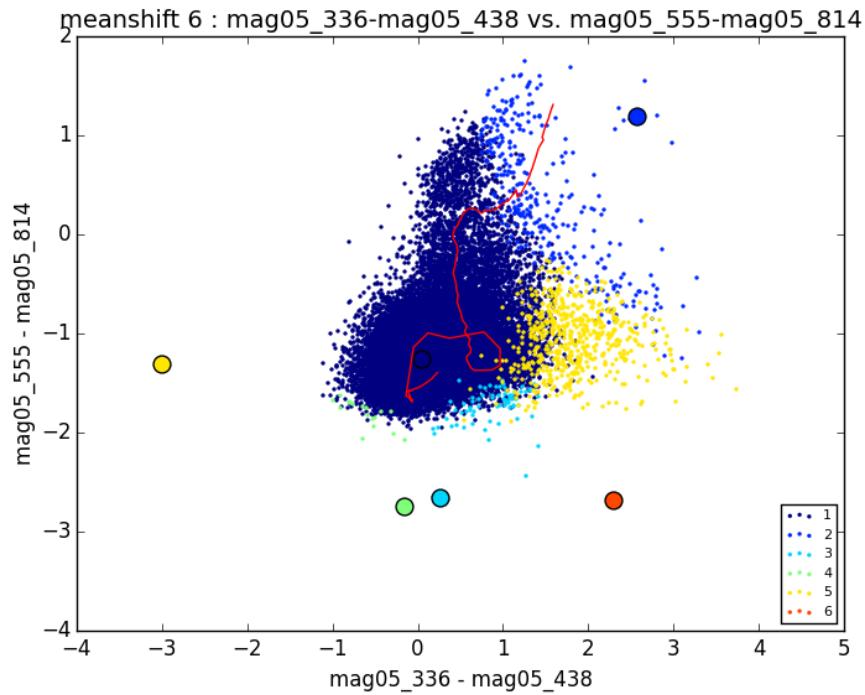


Figure 61: meanshift_base_color_6cl_mag05_336-mag05_438vsmag05_555-mag05_814.png

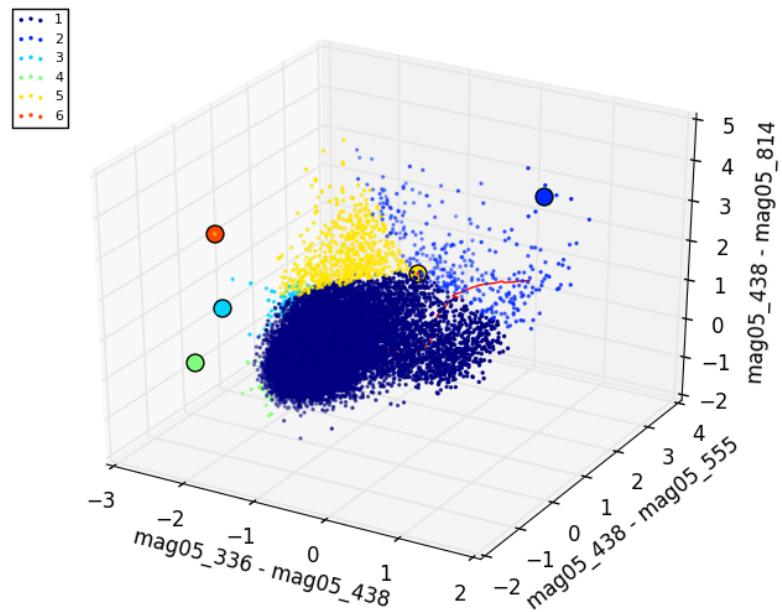


Figure 62: meanshift_3d_6cl_mag05_336-mag05_438vsmag05_438-mag05_555vsmag05_438-mag05_814.png

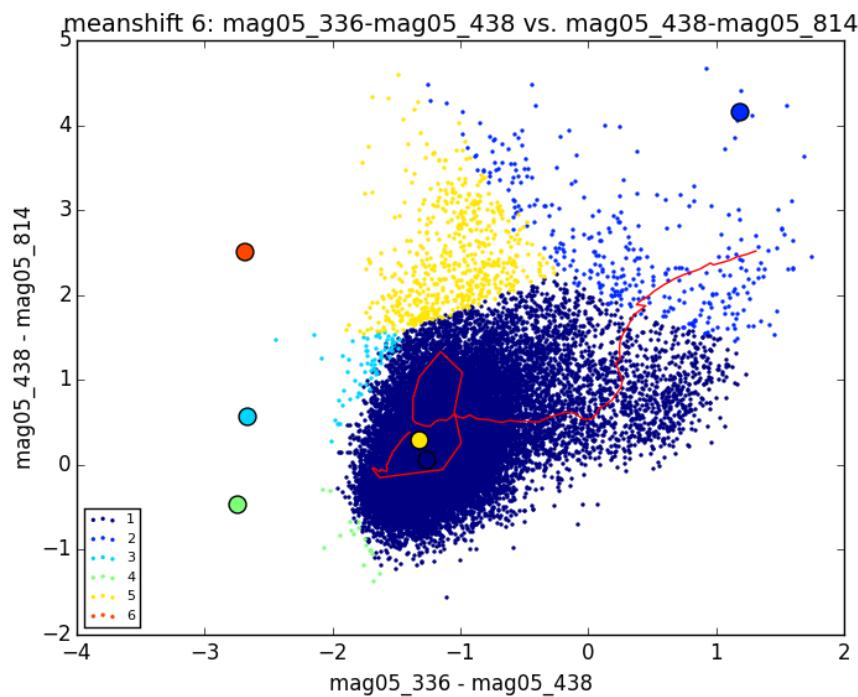


Figure 63: meanshift_3d_projection_6cl_mag05_336-mag05_438vsmag05_438-mag05_814.png

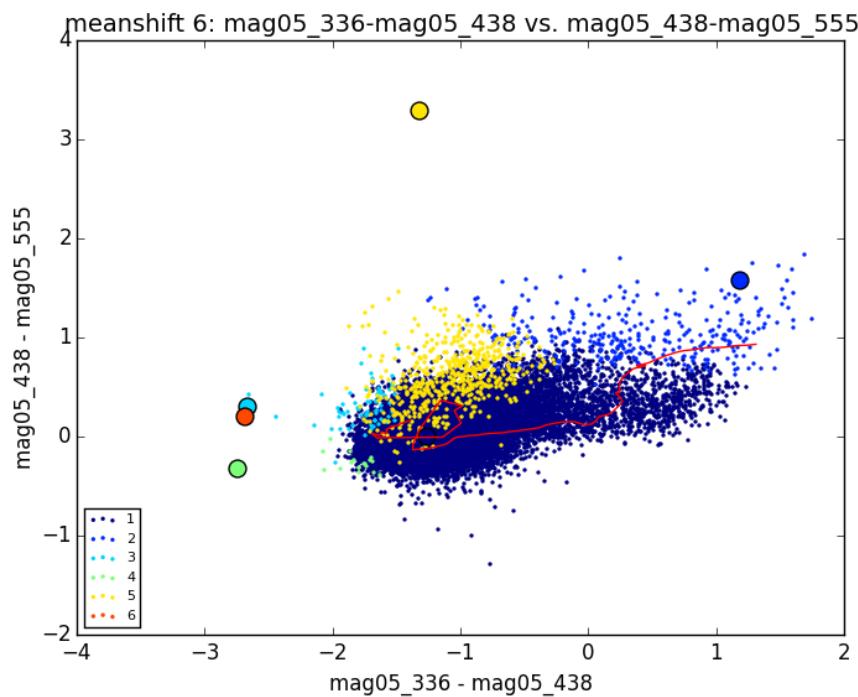


Figure 64: meanshift_3d_projection_6cl_mag05_336-mag05_438vsmag05_438-mag05_555.png

Cluster	Nobj	tScore	cScore	rms	AvgDist	MaxDist	MinDist	Stdev	Cen1	-0
1	27946	0.19369264961	0.189555459416	0.7800	0.8513	4.0686	0.0010	0.732	-1.25922294737	-0
2	327	0.19369264961	0.268236861848	1.7343	1.2600	4.3178	0.0135	1.116	1.19028571429	
3	73	0.19369264961	0.564321409053	1.2537	0.5347	1.6205	0.0305	1.2503	-2.663	
4	13	0.19369264961	0.625137982985	1.2424	0.5507	1.3966	0.0633	0.7325	-2.746	
5	1	0.19369264961	0.0	N/A	N/A	N/A	N/A	1.9084	-1.317	
6	571	0.19369264961	0.296619030727	1.5975	0.8739	3.0704	0.0100	1.4678	-2.682	
1	27927	0.192158277363	0.187947451316	0.7797	0.8502	4.0686	0.0010	0.7314	-1.2673811289	-0
2	330	0.192158277363	0.270783833612	1.7301	1.2581	4.3178	0.0135	1.1126	1.19028571429	
3	79	0.192158277363	0.572151078595	1.2489	0.5227	1.6205	0.0305	1.2459	-2.663	
4	581	0.192158277363	0.288881645101	1.5919	0.8734	3.0704	0.0100	1.4635	-2.682	
5	1	0.192158277363	0.0	N/A	N/A	N/A	N/A	1.9084	-1.317	
6	13	0.192158277363	0.624908721447	1.2424	0.5507	1.3966	0.0633	0.7325	-2.746	
1	27946	0.19369264961	0.189555459416	0.7800	0.8513	4.0686	0.0010	0.732	-1.25922294737	-0
2	327	0.19369264961	0.268236861848	1.7343	1.2600	4.3178	0.0135	1.116	1.19028571429	
3	73	0.19369264961	0.564321409053	1.2537	0.5347	1.6205	0.0305	1.2503	-2.663	
4	13	0.19369264961	0.625137982985	1.2424	0.5507	1.3966	0.0633	0.7325	-2.746	
5	1	0.19369264961	0.0	N/A	N/A	N/A	N/A	1.9084	-1.317	
6	571	0.19369264961	0.296619030727	1.5975	0.8739	3.0704	0.0100	1.4678	-2.682	
1	27951	0.185967960026	0.181389308232	0.7802	0.8515	4.1072	0.0010	0.7323	-1.25115582926	0.0
2	325	0.185967960026	0.280895959995	1.7215	1.2458	4.0647	0.0107	1.0961	1.25225	
3	71	0.185967960026	0.563547266177	1.2565	0.5396	1.6205	0.0305	1.2533	-2.663	
4	18	0.185967960026	0.673729077657	1.2157	0.4742	1.3966	0.0209	0.6991	-2.746	
5	565	0.185967960026	0.295214744833	1.6093	0.8836	3.3793	0.0100	1.4775	-2.682	
6	1	0.185967960026	0.0	N/A	N/A	N/A	N/A	1.9084	-1.317	

meanshift results, Ncl=10

Cluster	Nobj	tScore	cScore	rms	AvgDist	MaxDist	MinDist	Stdev	Cen1	-0
1	27453	0.198886135823	0.193719497968	0.7746	0.8079	3.3056	0.0010	0.7193	-1.27624235781	-0
2	806	0.198886135823	0.210047029601	1.2774	1.0413	3.2604	0.0065	0.8472	0.8458	
3	206	0.198886135823	0.441489143583	2.0524	0.7339	2.3091	0.0154	1.7512	-1.2263	
4	9	0.198886135823	0.348418626195	2.6225	0.7402	1.4544	0.1569	1.3975	1.235	
5	84	0.198886135823	0.469539054477	1.2460	0.5176	1.6232	0.0297	1.2436	-2.663	
6	3	0.198886135823	0.595522204189	2.3265	0.4586	0.6658	0.1546	0.7674	1.686	
7	11	0.198886135823	0.583768020224	1.2592	0.6022	1.3966	0.0633	0.7532	-2.746	
8	341	0.198886135823	0.359840270584	1.4212	0.5950	2.0295	0.0100	1.3585	-2.682	
9	17	0.198886135823	0.121067824199	0.6884	1.1857	2.6651	0.0351	0.5404	-0.766	
10	1	0.198886135823	0.0	N/A	N/A	N/A	N/A	1.9084	-1.317	

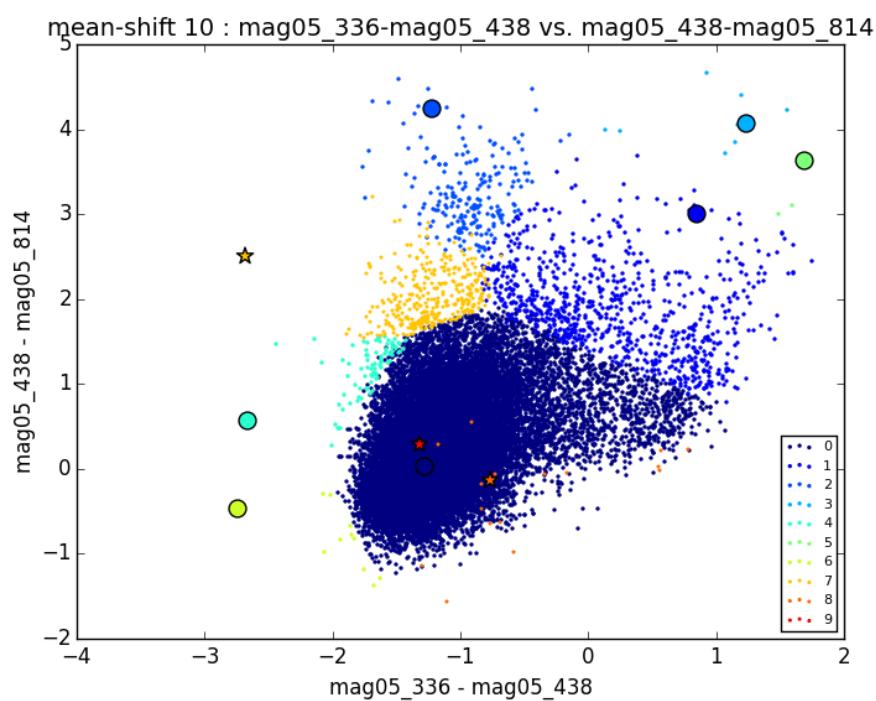


Figure 65: meanshift_3d_color_10cl_mag05_336-mag05_438vsmag05_438-mag05_814.png

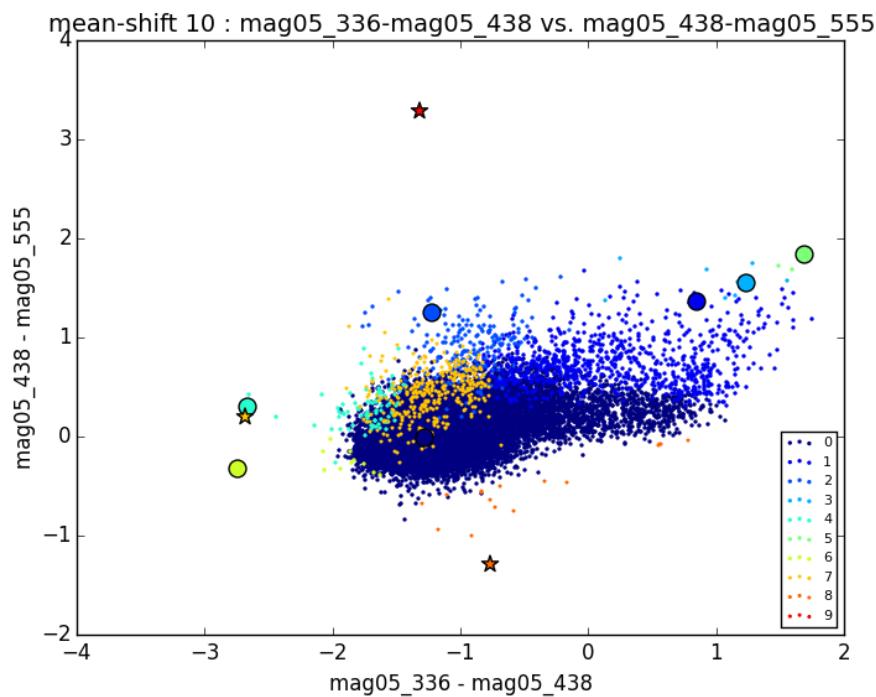


Figure 66: meanshift_3d_color_10cl_mag05_336-mag05_438vsmag05_438-mag05_555.png

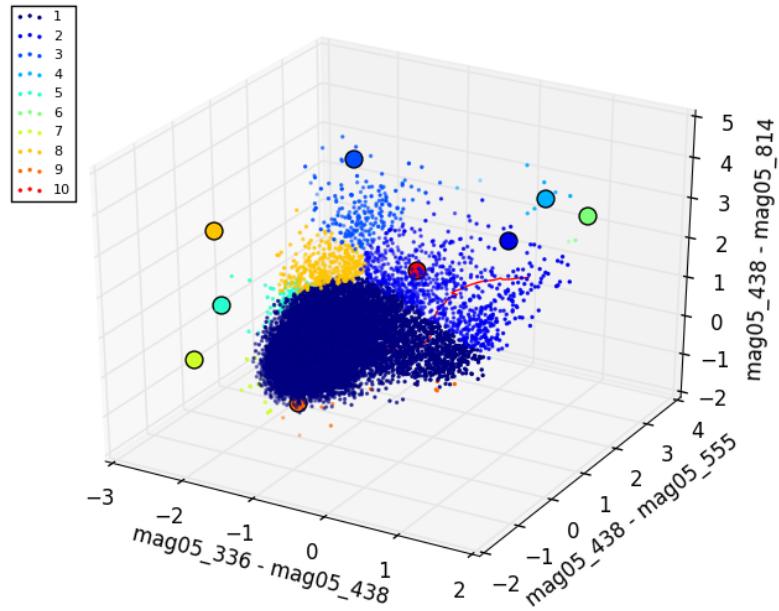


Figure 67: meanshift_3d_10cl_mag05_336-mag05_438vsmag05_438-mag05_555vsmag05_438-mag05_814.png

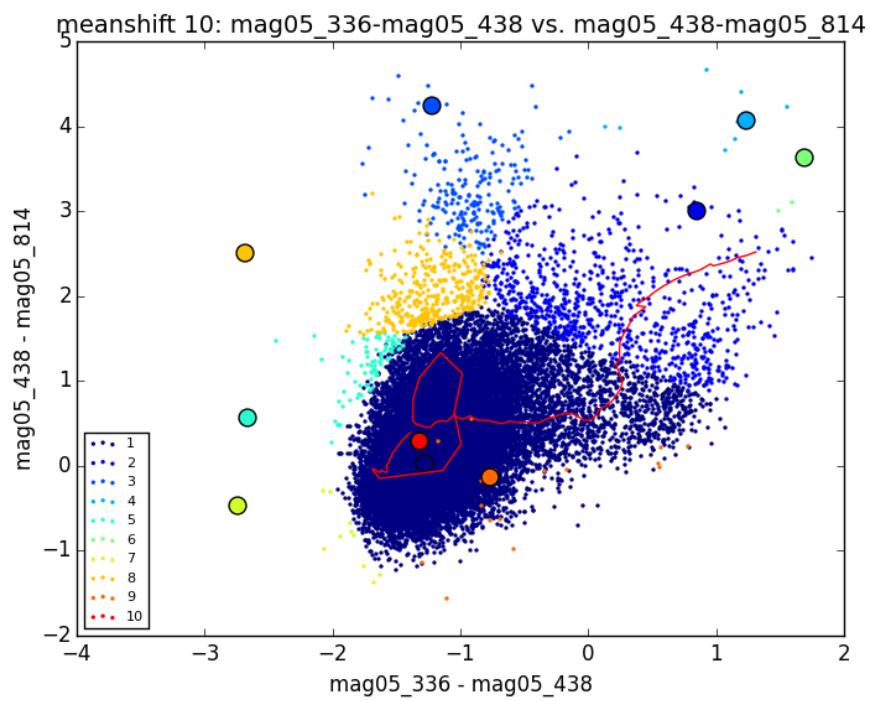


Figure 68: meanshift_3d_projection_10cl_mag05_336-mag05_438vsmag05_438-mag05_814.png

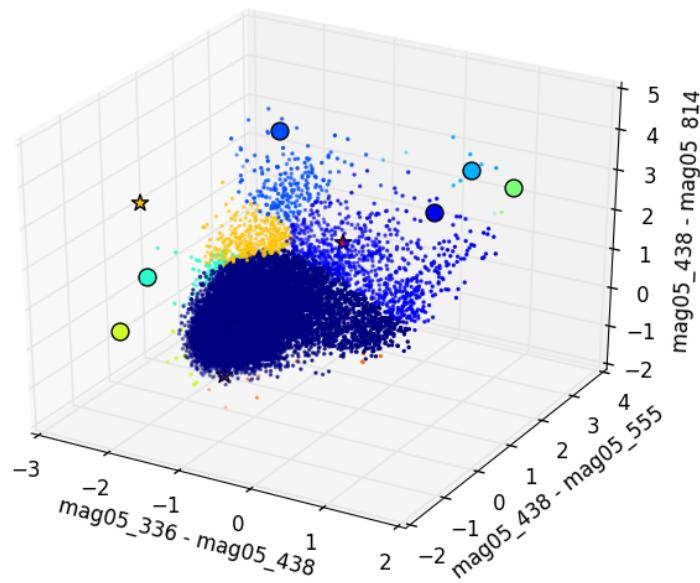


Figure 69: meanshift_3d_color_10cl_mag05_336-mag05_438vsmag05_438-mag05_555vsmag05_438-mag05_814.png

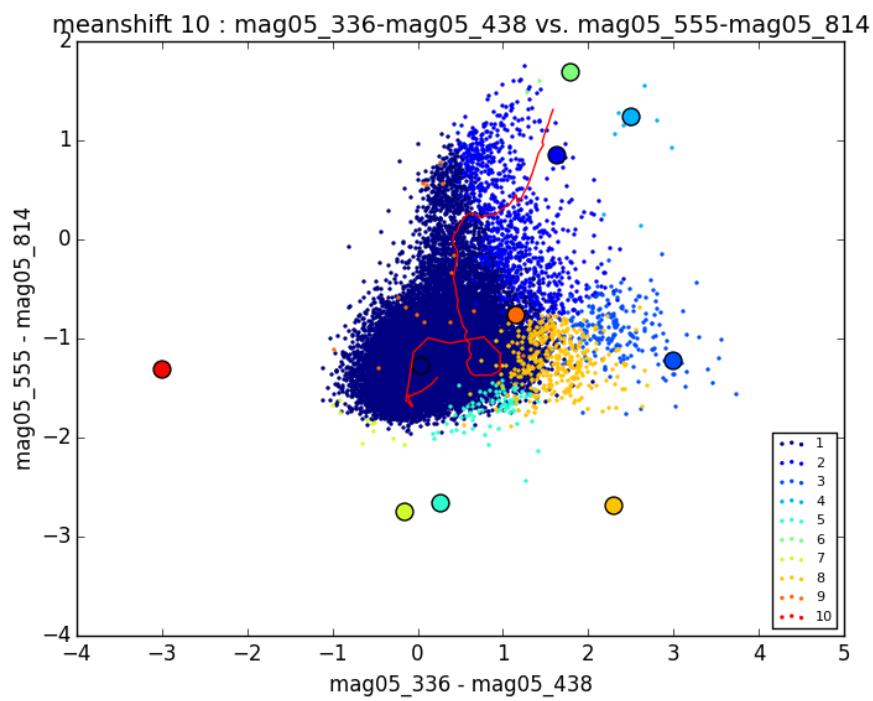


Figure 70: meanshift_base_color_10cl_mag05_336-mag05_438vsmag05_555-mag05_814.png

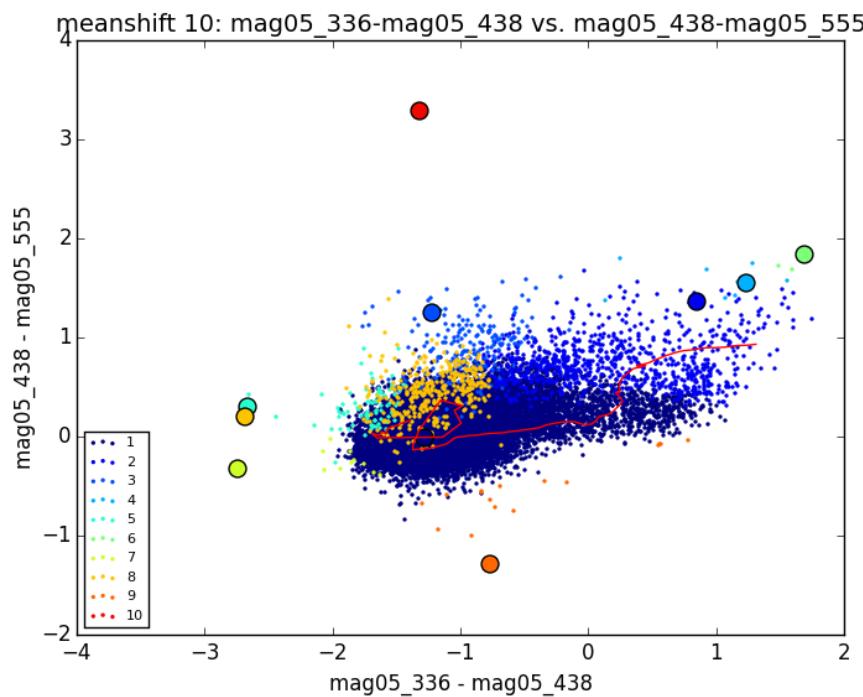


Figure 71: meanshift_3d_projection_10cl_mag05_336-mag05_438vsmag05_438-mag05_555.png

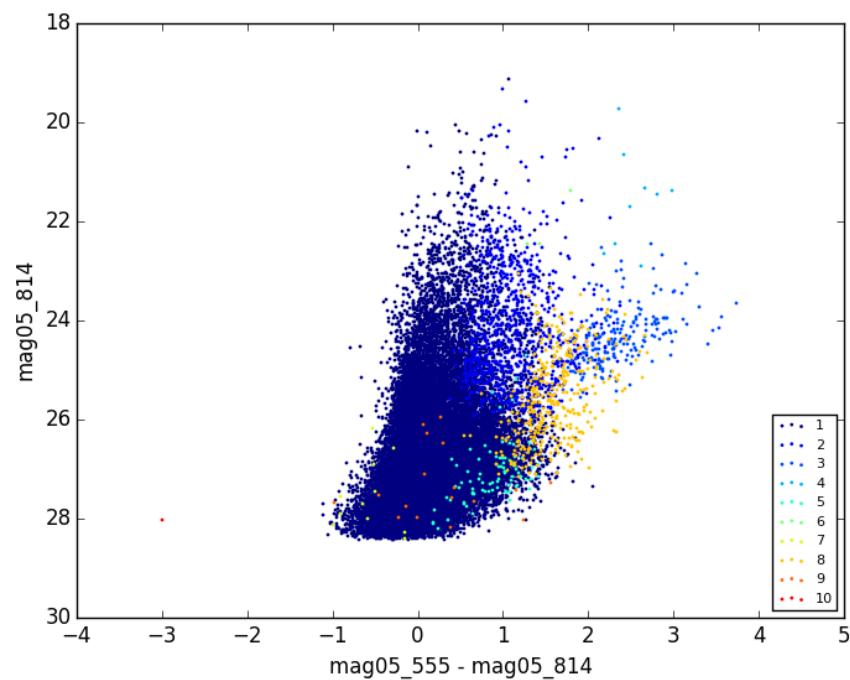


Figure 72: meanshift_CMD_10cl_mag05_555-mag05_814vsmag05_814.png