```
Python 3.7.8 (default, Jul 28 2020, 07:26:03)
[GCC 7.3.0] :: Anaconda, Inc. on linux2 Type "help", "copyright", "credits" or "license" for more information.
IPython 7.2.0 -- An enhanced Interactive Python.

In [1]: runfile('/home/jonathanrzucker/Apogee By Programmer Dup', wdir='/home/jonathanrzucker')
/home/jonathanrzucker/anaconda3/bin/python
Using matplotlib backend: Qt5Agg

Class 1: 12
Class 2: 1
Class 3: 2187
Class 4: 5248
Class 5: 3198
Class 6: 2148
Class 7: 1148
Class 8: 1198
Class 9: 1023
Class 10: 1

Fe: 42212
Mg: 32148
Si: 32148
Ca: 32148
Na: 30211

Kfit Stars 47287

Mh: Stars 5730

Mg_m: Stars 5230
Mg_p: Stars 5230
Mg_p: Stars 10460
Mg_p: Stars 15690

SNR_m: Stars 20690
SNR_p: Stars 20690
SNR_p: Stars 41380
SNR_p: Stars 12921

Mg_m: Stars 5860
Mg_p: Stars 5860
Mg_p: Stars 7845
Mg_p: Stars 7845

Mg_m: Stars 7845
Mg_p: Stars 7845
Mg_p: Stars 15690
Mg_p: Stars 15690
Mg_p: Stars 15690
Mg_p: Stars 15690

Fields: ['SNR+60' 'SNR+63' 'SNR+65' ... 'Moving_group' 'ra_gaia' 'ra']

Bulge: 2219
Bend_sequence: 525
subgiants: 1
Thick: 1
red_giants: 1862

ccc_bin: 8361
Bend_sequence: 1887
Thick: 461
subgiants: 1
red_giants: 5129

Halo: 1764
Bend_sequence: 1076
Thick: 1552
subgiants: 1
red_giants: 5230

Halo_bin: 3961
Bend_sequence: 1962
Thick: 1
subgiants: 1
red_giants: 1198

Halo_dwarf: 1797
Bend_sequence: 1
Thick: 1
subgiants: 34
red_giants: 1411

Halo_giiant: 7730
Bend_sequence: 1198
Thick: 1198
subgiants: 1
red_giants: 3413

Bend: 1
Bend_sequence: 1238
Thick: 1
subgiants: 1
red_giants: 1148

Bend_giant: 1
Bend_sequence: 1
Thick: 1
subgiants: 1
red_giants: 1148

Bend_giant: 1
Bend_sequence: 1214
Thick: 1
subgiants: 1
red_giants: 1148

Disk: 30211
Bend_sequence: 7984
Thick: 1
subgiants: 27
red_giants: 14146

Halo: 10878
Bend_sequence: 2888
Thick: 1
subgiants: 1
red_giants: 7988

Agi: 1211
Bend_sequence: 53
Thick: 1
subgiants: 1
red_giants: 1154

Agi_clump: 263
Bend_sequence: 75
Thick: 1
subgiants: 1
red_giants: 111

Cluster_gc: 5470
Bend_sequence: 1148
Thick: 1
subgiants: 1
red_giants: 4270

Cluster_gc: 3145
Bend_sequence: 1174
Thick: 1
subgiants: 1
red_giants: 1217

Cluster_gc: 967
Bend_sequence: 1
Thick: 1
subgiants: 1
red_giants: 787

Clusters_gc: 946
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Thick: 1
subgiants: 21
red_giants: 1
red_giants: 918

Clusters_gc: 849
Bend_sequence: 1
Thick: 1
subgiants: 1
red_giants: 298

Clusters_gc: 1148
Bend_sequence: 1
Thick: 1
subgiants: 1
red_giants: 1

Cluster_gc: 1148
Bend_sequence: 1
Thick: 1
subgiants: 1
red_giants: 1148

Magellanic: 7431
Bend_sequence: 1017
Thick: 1148
subgiants: 1
red_giants: 5262

Ki: 1148
Bend_sequence: 1
Thick: 1148
subgiants: 1
red_giants: 1148

Ki_bin: 208
Bend_sequence: 20
Thick: 1
subgiants: 1
red_giants: 1

Ring_dwarf: 13512
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Thick: 1
subgiants: 1
red_giants: 8154

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Thick: 1
subgiants: 1
red_giants: 1

Ring_giant: 1
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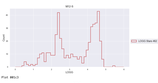
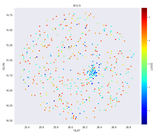
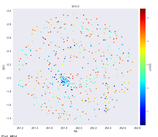
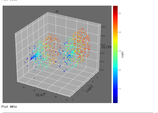


Plot MOLD

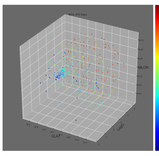


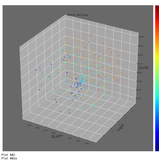


Plot MOLZ

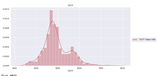


Plot MOLx

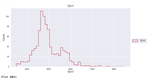




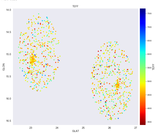
Plot MOLy
Plot MOLz

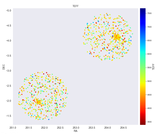


Plot MOLs

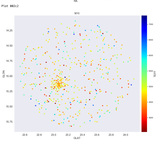


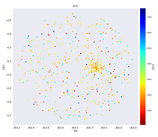
Plot MOLr

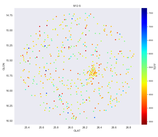


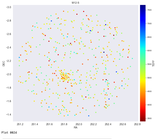


Plot MOLr2









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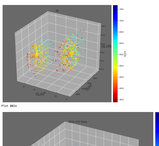

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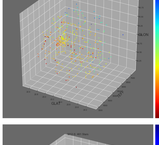
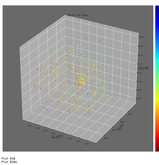
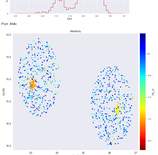




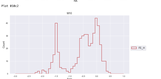
Plot MOLy
Plot MOLz

Plot MOLs

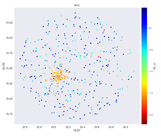


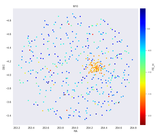
Plot MOLr

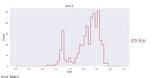
Plot 816c2



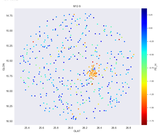
Plot 816c3

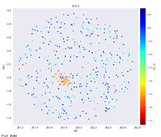






Plot 816c3





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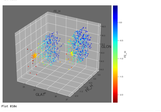

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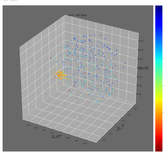

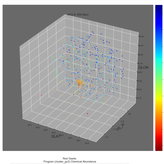

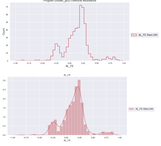

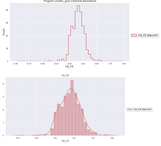

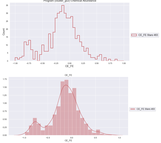

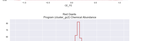

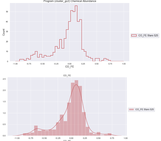

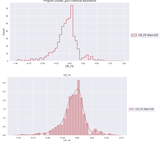

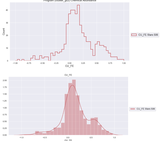

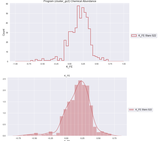

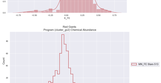

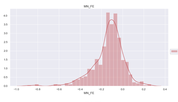

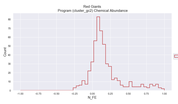

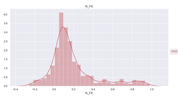

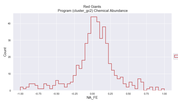

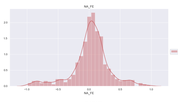

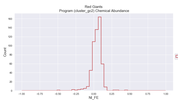

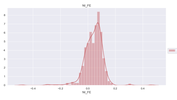

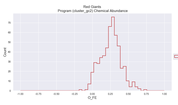

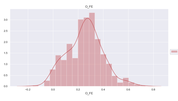

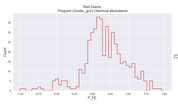

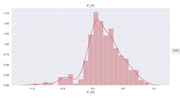

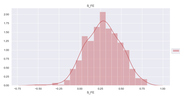


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Class B: 0
Class A: 0
Class F: 58
Class G: 32
Class K: 429
Class M: 0
Class L: 0
Class T: 0

FG: 91
GK: 430
OBA: 58
MLT: 23
Mg: 27

All: Stars 517

NA: Stars 1

Fe_a: Stars 33
Fe_b: Stars 28
Fe_c: Stars 15
Fe_d: Stars 1

OAE_a: Stars 121
OAE_b: Stars 45
OAE_c: Stars 45
OAE_d: Stars 6

OAG_a: Stars 270
OAG_b: Stars 119
OAG_c: Stars 128
OAG_d: Stars 41

MG_a: Stars 15
MG_b: Stars 2
MG_c: Stars 2
MG_d: Stars 8

Mg_a: Stars 15
Mg_b: Stars 5
Mg_c: Stars 2
Mg_d: Stars 2

Fields: ['M10' 'M12-5']

Program: cluster_gc2

Done

In [8]:
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