```
Python 3.7.8 (default, Jun 24 2020, 07:26:10)
[GCC 4.2.1 Compatible Apple LLVM 9.0.0 (clang-900.0.39.2)] on darwin
Type "help", "copyright", "credits" or "license" for more information.
IPython 7.2.0 -- An enhanced Interactive Python.

In [1]: runfile('/Users/jonathanrosenblatt/Dropbox (My Projects)/Bonus Scripts/Bonus Scripts.py', wdir='/Users/jonathanrosenblatt/Dropbox (My Projects)/Bonus Scripts')
Loading ipyparallel extension
Connecting to cluster

Class 0: 12
Class 1: 2
Class 2: 2187
Class 3: 5248
Class 4: 5248
Class 5: 2187
Class 6: 12
Class 7: 1
Class 8: 1

Fit 42212
Wed 52248
Wed 52248
Wed 52248
Wed 52212

Wrl: Stars 47287

Wd: Stars 5730

Mg_p: Stars 5230
Mg_p: Stars 5230
Mg_p: Stars 2809
Mg_p: Stars 2809

SNR_p: Stars 20094
SNR_p: Stars 20094
SNR_p: Stars 12053
SNR_p: Stars 12053

Dbg_p: Stars 59828
Dbg_p: Stars 59828
Dbg_p: Stars 76645
Dbg_p: Stars 76645

Mg_p: Stars 5230
Mg_p: Stars 7605
Mg_p: Stars 7605
Mg_p: Stars 5231

Mg_p: Stars 21268
Mg_p: Stars 21268
Mg_p: Stars 12219
Mg_p: Stars 12219

Fields: ['2000-00-0' '0000-00' '0000-00-0' ..., 'moving_groups' '\r\n' '\n']

Bulge: 2219
main_sequence: 525
subgiants: 0
giants: 0
red_giants: 1692

cui_dorb: 8361
main_sequence: 1887
subgiants: 0
giants: 0
red_giants: 5129

Hydra: 17614
main_sequence: 4276
turnoff: 2052
subgiants: 0
red_giants: 5230

Hydra_DKI:
main_sequence: 1962
turnoff: 750
subgiants: 0
red_giants: 1380

Hydra_dwarf: 1767
main_sequence: 1
turnoff: 34
subgiants: 0
red_giants: 1411

Hydra_stream: 7719
main_sequence: 1739
turnoff: 1188
subgiants: 0
red_giants: 2453

Hydra_II:
main_sequence: 1238
turnoff: 1
subgiants: 0
red_giants: 1071

Hydra_II_DKI:
main_sequence: 514
turnoff: 1
subgiants: 0
red_giants: 1

Hydra_II_dwarf:
main_sequence: 1584
turnoff: 1
subgiants: 27
red_giants: 1146

Hydra_II_stream: 10878
main_sequence: 2888
turnoff: 1
subgiants: 0
red_giants: 4

Hyi: 1273
main_sequence: 53
turnoff: 1
subgiants: 0
red_giants: 1214

Hyi_stream: 25
main_sequence: 5
turnoff: 0
subgiants: 0
red_giants: 111

Crater_p: 5470
main_sequence: 1
turnoff: 0
subgiants: 0
red_giants: 5270

Crater_p_dwarf: 8181
main_sequence: 1174
turnoff: 395
subgiants: 0
red_giants: 5237

Crater_p_DKI:
main_sequence: 1
turnoff: 0
subgiants: 0
red_giants: 587

Crater_p_stream: 1
main_sequence: 1
turnoff: 0
subgiants: 0
red_giants: 1

Crater_p_II: 1
main_sequence: 1
turnoff: 0
subgiants: 0
red_giants: 1

Crater_p_II_dwarf: 1
main_sequence: 1
turnoff: 0
subgiants: 0
red_giants: 1

Crater_p_II_DKI: 1
main_sequence: 1
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subgiants: 0
red_giants: 1

Crater_p_II_stream: 1
main_sequence: 1
turnoff: 0
subgiants: 0
red_giants: 1

Magellanic: 7431
main_sequence: 1017
turnoff: 148
subgiants: 0
red_giants: 6262

Ari: 1288
main_sequence: 313
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red_giants: 1328

Ari_dwarf: 288
main_sequence: 28
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red_giants: 224

Ari_stream: 13512
main_sequence: 1953
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subgiants: 0
red_giants: 8224

Ari_II: 1340
main_sequence: 153
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red_giants: 1

Ari_II_dwarf:
main_sequence: 1
subgiants: 0
red_giants: 1

Ari_II_stream: 1
main_sequence: 1
subgiants: 0
red_giants: 1

Berlinova_Cru: 264
main_sequence: 27
turnoff: 1
subgiants: 1
red_giants: 1

Berlin_Obs: 2982
main_sequence: 27
turnoff: 1
subgiants: 0
red_giants: 1

Berlinova_Cru: 5873
main_sequence: 108
turnoff: 1
subgiants: 0
red_giants: 1

Beta_Cru: 1
main_sequence: 1
turnoff: 0
subgiants: 0
red_giants: 1

Beta_Cru_DKI: 792
main_sequence: 75
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red_giants: 1

Aries: 1
main_sequence: 1
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Aries_stream: 1
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subgiants: 0
red_giants: 1

Aries_II: 1
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Aries_II_stream: 1
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red_giants: 1

Aries_II_DKI: 1
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subgiants: 0
red_giants: 1

Antlia: 1
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red_giants: 1

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red_giants: 1

Antlia_stream: 1
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red_giants: 1

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Antlia_II_stream: 1
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Antlia_Obs_stream: 1
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red_giants: 1

Antlia_Obs_II: 1
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red_giants: 1

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red_giants: 1

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red_giants: 1

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red_giants: 1

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red_giants: 1

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red_giants: 1

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red_giants: 1

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red_giants: 1

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red_giants: 1

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red_giants: 1

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red_giants: 1

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red_giants: 1

Antlia_Obs_XLVIII: 1
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subgiants: 0
red_giants: 1

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subgiants: 0
red_giants: 1

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Antlia_Obs_XLIX: 1
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subgiants: 0
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turnoff: 0
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red_giants: 1

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red_giants: 1

Antlia_Obs_L: 1
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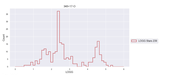
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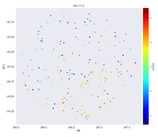

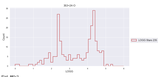

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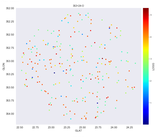

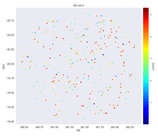

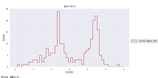

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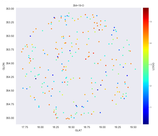

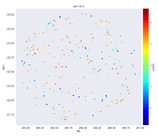

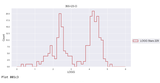

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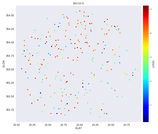

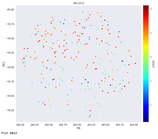

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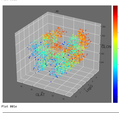

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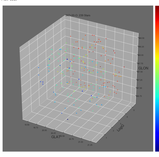
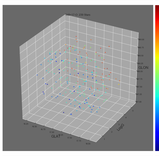
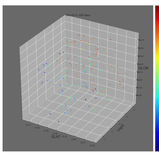
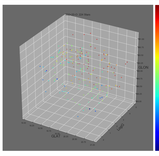
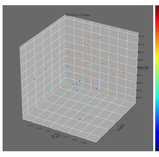
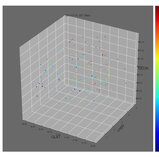


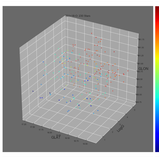


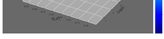


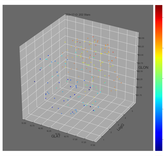


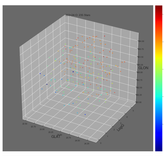


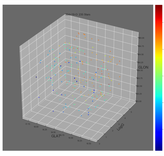


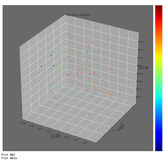




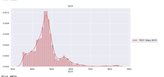








Plot 002
Plot 003:



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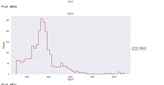

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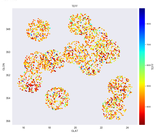
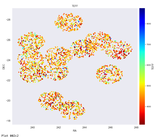
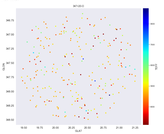
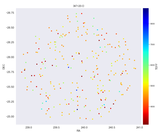
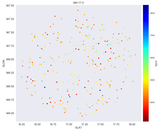


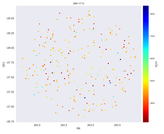


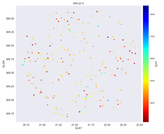
Plot 002:2

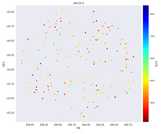


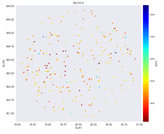


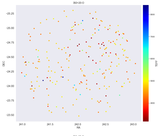


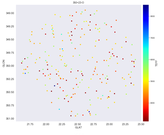


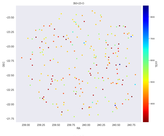


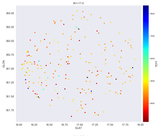


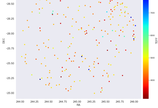


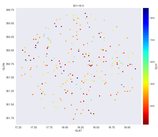


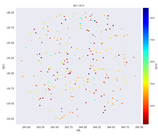


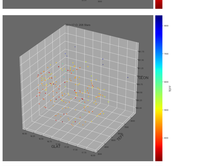


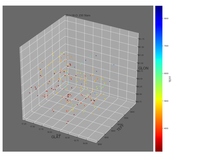


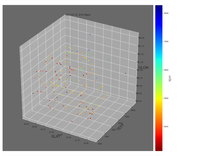


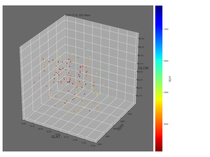


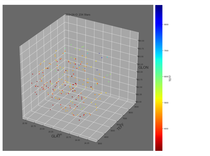


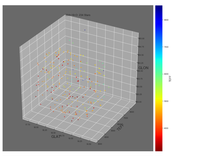


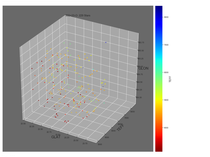






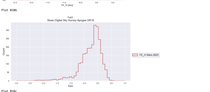






Plot #14
Plot #15b:

Plot #15b:



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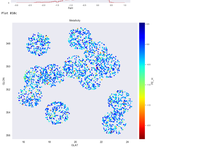
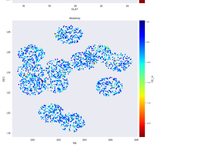
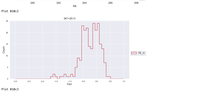
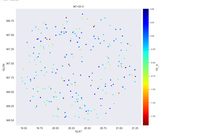


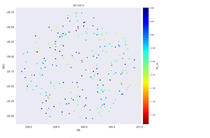


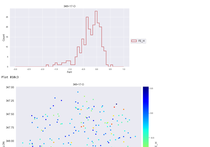
Plot #18b-2



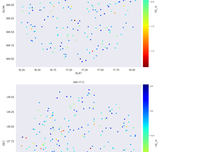
Plot #18b-3

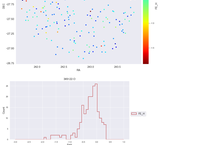


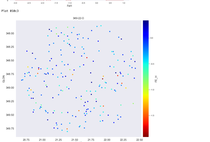




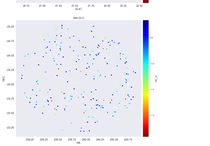
Plot #18b-3



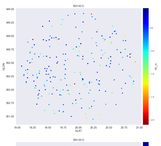


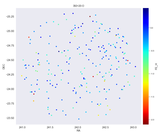


Plot #18b-3



Plot #1&3





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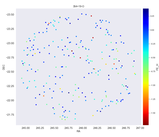

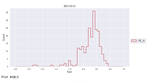

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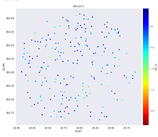

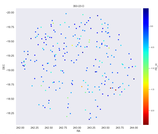

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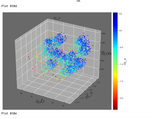

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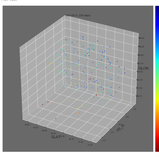
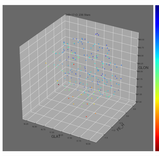
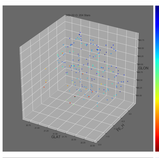
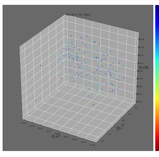
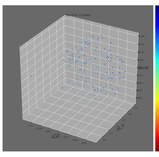
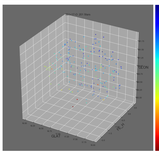


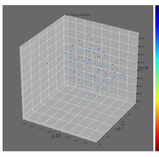


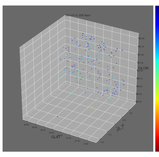


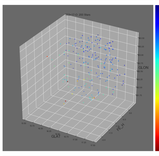


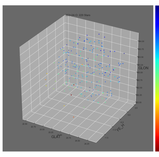


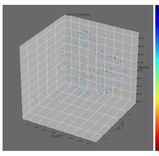


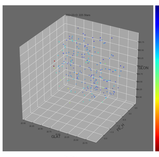


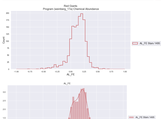




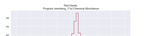


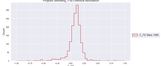




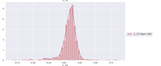


Red Cards
Program Learning, 11v1 Classical Abundance
Frequency
Value
Data
11_V1_Data (100)


11_V1
Data (100)

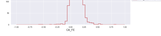

Red Cards
Program Learning, 11v1 Classical Abundance
Frequency
Value
Data
11A_V1_Data (100)

11A_V1
Data (100)


Red Cards
Program Learning, 11v1 Classical Abundance
Frequency
Value
Data
11S_V1_Data (500)

11S_V1
Data (500)

Red Cards
Program Learning, 11v1 Classical Abundance
Frequency
Value
Data
11T_V1_Data (500)


11T_V1
Data (500)

Red Cards
Program Learning, 11v1 Classical Abundance
Frequency
Value
Data
11U_V1_Data (500)

11U_V1
Data (500)

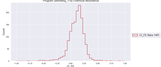
Red Cards
Program Learning, 11v1 Classical Abundance
Frequency
Value
Data
11V_V1_Data (500)

11V_V1
Data (500)

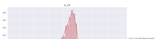
Red Cards
Program Learning, 11v1 Classical Abundance
Frequency
Value
Data
11W_V1_Data (500)

11W_V1
Data (500)

Red Cards
Program Learning, 11v1 Classical Abundance
Frequency
Value
Data
11X_V1_Data (500)


11X_V1
Data (500)

Red Cards
Program Learning, 11v1 Classical Abundance
Frequency
Value
Data
3A_V1_Data (500)

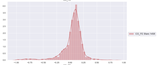

3A_V1
Data (500)

Red Cards
Program Learning, 11v1 Classical Abundance
Frequency
Value
Data
3B_V1_Data (500)

3B_V1
Data (500)

Red Cards
Program Learning, 11v1 Classical Abundance
Frequency
Value
Data
3C_V1_Data (500)

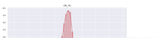
3C_V1
Data (500)

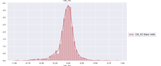

Red Cards
Program Learning, 11v1 Classical Abundance
Frequency
Value
Data
3D_V1_Data (500)

3D_V1
Data (500)

Red Cards
Program Learning, 11v1 Classical Abundance
Frequency
Value
Data
3E_V1_Data (500)

3E_V1
Data (500)

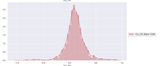

Red Cards
Program Learning, 11v1 Classical Abundance
Frequency
Value
Data
3F_V1_Data (500)


3F_V1
Data (500)

Red Cards
Program Learning, 11v1 Classical Abundance
Frequency
Value
Data
3G_V1_Data (500)

3G_V1
Data (500)

Red Cards
Program Learning, 11v1 Classical Abundance
Frequency
Value
Data
3H_V1_Data (500)


3H_V1
Data (500)

Red Cards
Program Learning, 11v1 Classical Abundance
Frequency
Value
Data
3I_V1_Data (500)

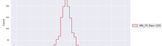
3I_V1
Data (500)

Red Cards
Program Learning, 11v1 Classical Abundance
Frequency
Value
Data
3J_V1_Data (500)

3J_V1
Data (500)

Red Cards
Program Learning, 11v1 Classical Abundance
Frequency
Value
Data
3K_V1_Data (500)

3K_V1
Data (500)


Red Cards
Program Learning, 11v1 Classical Abundance
Frequency
Value
Data
3L_V1_Data (500)

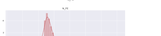
3L_V1
Data (500)

Red Cards
Program Learning, 11v1 Classical Abundance
Frequency
Value
Data
3M_V1_Data (500)

3M_V1
Data (500)

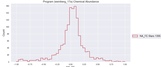
Red Cards
Program Learning, 11v1 Classical Abundance
Frequency
Value
Data
3N_V1_Data (500)

3N_V1
Data (500)

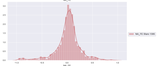

Red Cards
Program Learning, 11v1 Classical Abundance
Frequency
Value
Data
3O_V1_Data (500)

3O_V1
Data (500)

Red Cards
Program Learning, 11v1 Classical Abundance
Frequency
Value
Data
3P_V1_Data (500)


3P_V1
Data (500)

Red Cards
Program Learning, 11v1 Classical Abundance
Frequency
Value
Data
3Q_V1_Data (500)

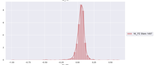

3Q_V1
Data (500)

Red Cards
Program Learning, 11v1 Classical Abundance
Frequency
Value
Data
3R_V1_Data (500)

3R_V1
Data (500)

Red Cards
Program Learning, 11v1 Classical Abundance
Frequency
Value
Data
3S_V1_Data (500)

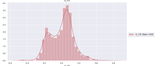
3S_V1
Data (500)


Red Cards
Program Learning, 11v1 Classical Abundance
Frequency
Value
Data
3T_V1_Data (500)

3T_V1
Data (500)

Red Cards
Program Learning, 11v1 Classical Abundance
Frequency
Value
Data
3U_V1_Data (500)

3U_V1
Data (500)

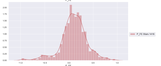

Red Cards
Program Learning, 11v1 Classical Abundance
Frequency
Value
Data
3V_V1_Data (500)

3V_V1
Data (500)

Red Cards
Program Learning, 11v1 Classical Abundance
Frequency
Value
Data
3W_V1_Data (500)

3W_V1
Data (500)

Red Cards
Program Learning, 11v1 Classical Abundance
Frequency
Value
Data
3X_V1_Data (500)


3X_V1
Data (500)

Red Cards
Program Learning, 11v1 Classical Abundance
Frequency
Value
Data
7A_V1_Data (500)

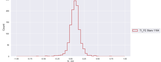
7A_V1
Data (500)

Red Cards
Program Learning, 11v1 Classical Abundance
Frequency
Value
Data
7B_V1_Data (500)

7B_V1
Data (500)

Red Cards
Program Learning, 11v1 Classical Abundance
Frequency
Value
Data
7C_V1_Data (500)

7C_V1
Data (500)


Red Cards
Program Learning, 11v1 Classical Abundance
Frequency
Value
Data
7D_V1_Data (500)

7D_V1
Data (500)

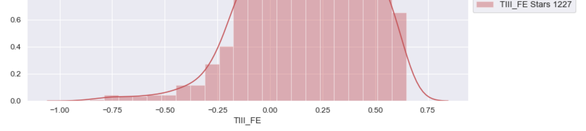
Red Cards
Program Learning, 11v1 Classical Abundance
Frequency
Value
Data
7E_V1_Data (500)

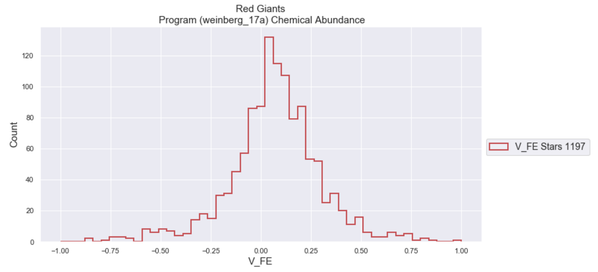
7E_V1
Data (500)

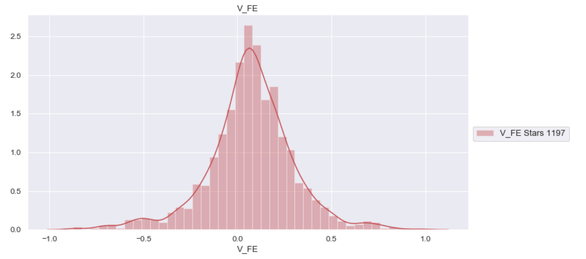
Red Cards
Program Learning, 11v1 Classical Abundance
Frequency
Value
Data
7F_V1_Data (500)

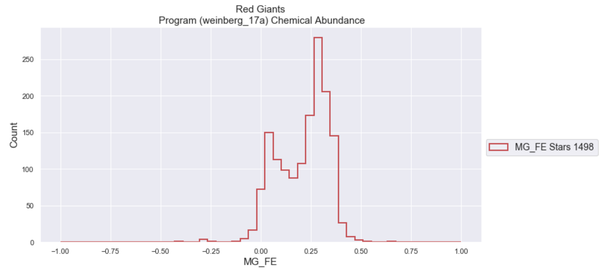
7F_V1
Data (500)

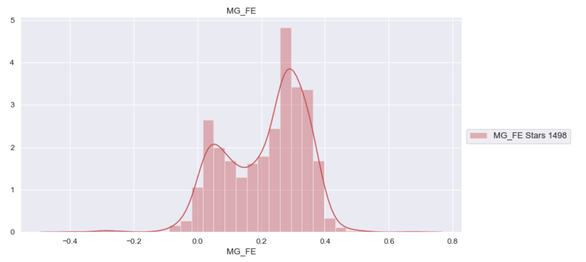
Red Cards
Program Learning, 11v1 Classical Abundance
Frequency
Value
Data
7G_V1_Data (500)

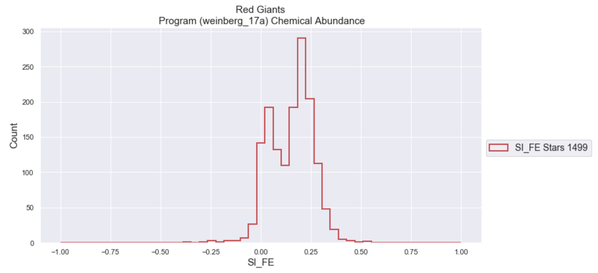


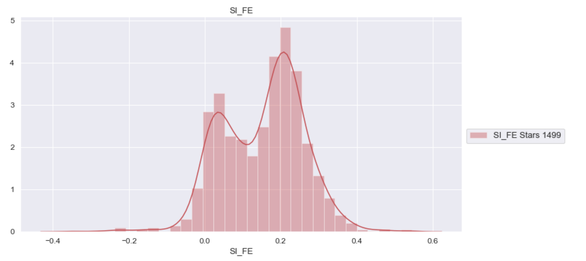










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Class O: 0
Class B: 0
Class A: 31
Class F: 49
Class G: 70
Class K: 1411
Class M: 946
Class L: 1
Class T: 0

Fd: 131
GKd: 443
GKg: 1409
Md: 523
Mg: 131

All: Stars 2679

BA: Stars 42

Fd_a: Stars 61
Fd_b: Stars 27
Fd_c: Stars 21
Fd_d: Stars 22

GKd_a: Stars 213
GKd_b: Stars 98
GKd_c: Stars 88
GKd_d: Stars 44

GKg_a: Stars 723
GKg_b: Stars 299
GKg_c: Stars 256
GKg_d: Stars 131

Md_a: Stars 256
Md_b: Stars 112
Md_c: Stars 103
Md_d: Stars 52

Mg_a: Stars 53
Mg_b: Stars 30
Mg_c: Stars 29
Mg_d: Stars 19

Fields: ['347+20-O' '348+17-O' '349+22-O' '350+20-O' '350+23-O' '351+17-O'
 '351+18-O' '351+21-O' '353+17-O' '353+24-O' '354+19-O' '355+23-O']

Program: weinberg_17a


Weinberger_17a (OCIS)
PI: A. Weinberger (Carnegie Institution for Science - Department of Terrestrial Magnetism)
We will survey the young, about 10 Myr old, Upper Scorpius cluster to measure the properties of a large,
homogenous population of young stars. We primarily target stars included in the K2 survey of the cluster.
We will measure effective temperatures, surface gravities, and radial velocities.

Done!
```

In [2]: