```
Python 3.7.8 (default, Jul 28 2020, 07:20:03)
[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 ProgramName 3.py', wdir='/home/jonathanrzucker')
/home/jonathanrzucker/anaconda3/bin/python
Using matplotlib backend: Qt5Agg

Class 0: 12
Class 1: 2
Class 2: 2182
Class 3: 5248
Class 4: 2182
Class 5: 2182
Class 6: 2182
Class 7: 2182
Class 8: 2182
Class 9: 2182

Fit: 42212
Cals: 42248
Bad: 36
Ok: 42212
Ok: 42212

All Stars 47287

Ok: Stars 5730

Mg_a: Stars 5230
Mg_b: Stars 5230
Mg_c: Stars 5230
Mg_d: Stars 5230

SiH_a: Stars 20898
SiH_b: Stars 20898
SiH_c: Stars 20898
SiH_d: Stars 12953

CN_a: Stars 19828
CN_b: Stars 19828
CN_c: Stars 19828
CN_d: Stars 19828

Mg_a: Stars 5230
Mg_b: Stars 7925
Mg_c: Stars 7925
Mg_d: Stars 5230

Mg_a: Stars 12288
Mg_b: Stars 12288
Mg_c: Stars 12288
Mg_d: Stars 12288

Fields: ['DEC-00-C' 'DEC-02' 'DEC-02-C' ... 'moving_groups' 'rv/gc' 'rv']

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

cu_jos: 8361
main_sequence: 1887
subgiants: 0
red_giants: 6474

halo: 17614
main_sequence: 4276
subgiants: 1932
red_giants: 11406
red_giants: 5230

beta_jos: 3961
main_sequence: 1962
subgiants: 34
red_giants: 1965
red_giants: 1930

beta_dwarf: 1967
main_sequence: 1967
subgiants: 34
red_giants: 0
red_giants: 1933

beta_giant: 7730
main_sequence: 2318
subgiants: 148
red_giants: 5264
red_giants: 2453

alpha: 3412
main_sequence: 1238
subgiants: 0
red_giants: 2174
red_giants: 1071

alpha_dwarf: 1238
main_sequence: 1238
subgiants: 0
red_giants: 0
red_giants: 1071

alpha1: 8011
main_sequence: 2584
subgiants: 0
red_giants: 5427
alpha2: 10870
main_sequence: 2888
subgiants: 0
red_giants: 7982

sgr: 1211
main_sequence: 53
subgiants: 0
red_giants: 1158

sgr_clump: 263
main_sequence: 75
subgiants: 0
red_giants: 188

cluster_jos: 5440
main_sequence: 1966
subgiants: 0
red_giants: 3474

cluster_jos: 3181
main_sequence: 1124
subgiants: 0
red_giants: 2057

cluster_jos: 1967
main_sequence: 1967
subgiants: 0
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subgiants: 0
red_giants: 0

clusters_jos: 946
main_sequence: 946
subgiants: 0
red_giants: 0

clusters_jos: 1021
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subgiants: 0
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main_sequence: 1968
subgiants: 0
red_giants: 0

cluster_jos: 1968
main_sequence: 1968
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main_sequence: 1968
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magellanic: 7431
main_sequence: 1017
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red_giants: 6262

m1: 1198
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red_giants: 739

m2_jos: 204
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red_giants: 178

m3: 1011
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red_giants: 0

m4_dwarf: 1012
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m6: 1198
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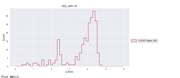
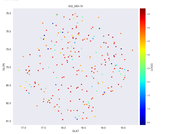
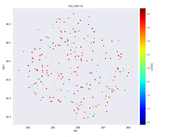
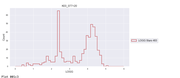



Plot BKLD

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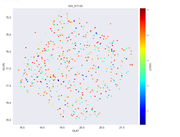


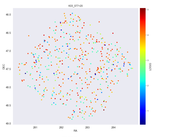


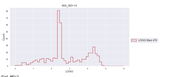


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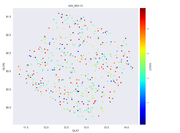


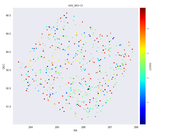


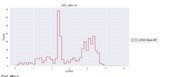


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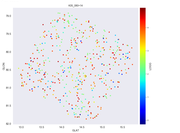


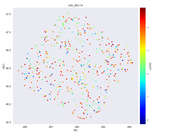


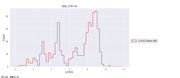


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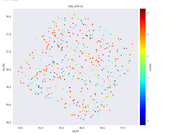


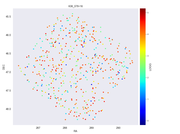


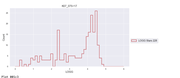


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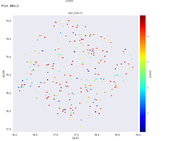


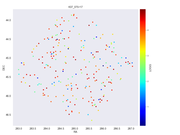


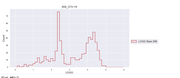


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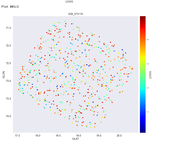


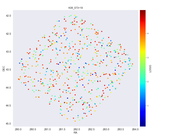


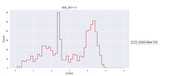


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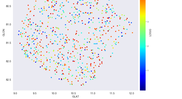
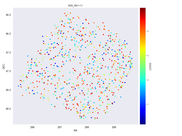
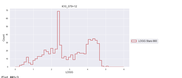
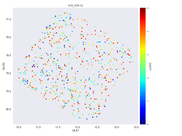
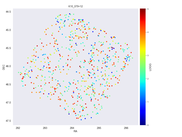


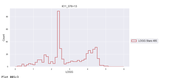



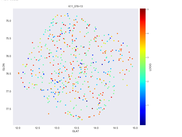

Plot 8BLD

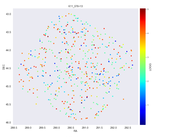


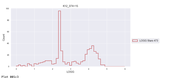



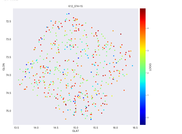

Plot 9BLD

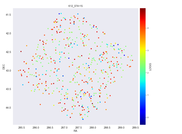


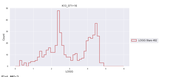



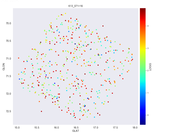

Plot 10BLD

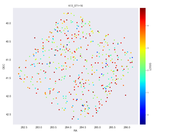


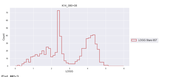




Plot 11BLD

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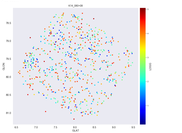


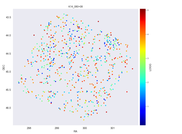


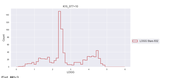


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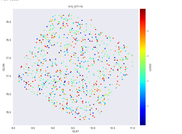
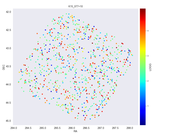
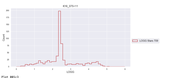
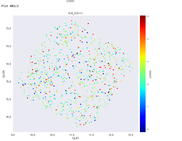



Plot 14BLD



Plot 15BLD

Plot 16BLD

Plot 17BLD

Plot 18BLD

Plot 19BLD

Plot 20BLD

Plot 21BLD










Plot 22BLD

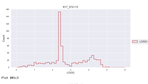









Plot 23BLD

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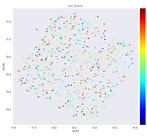

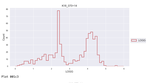


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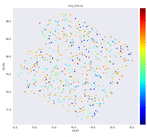


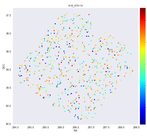


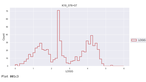


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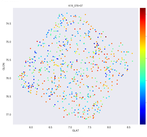


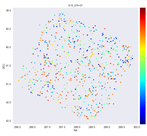


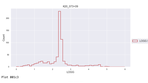


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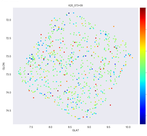


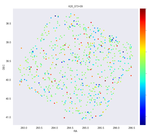


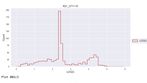


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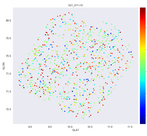


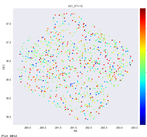


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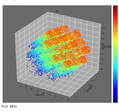

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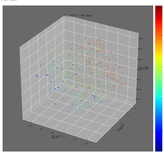
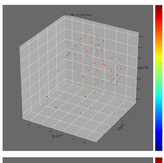
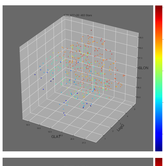
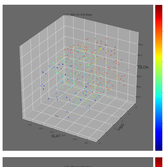
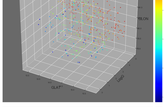
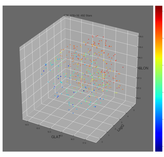


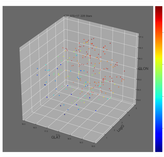


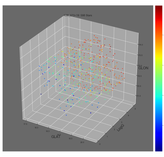


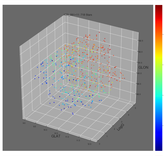


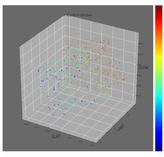


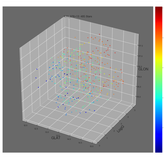


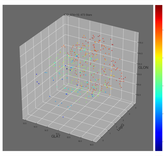


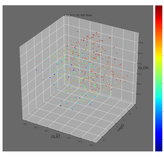


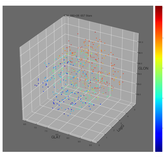


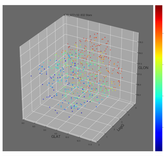


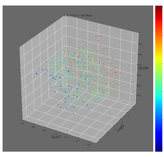


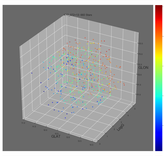


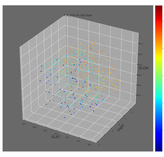


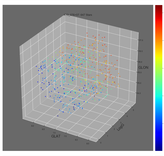


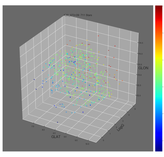


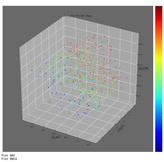








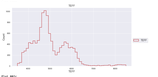






Plot 0B0
Plot 0B1

PUS 9B2b

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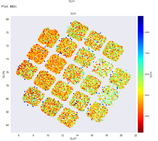


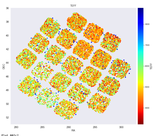


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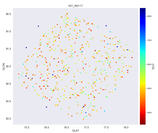


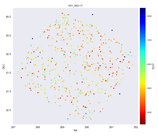


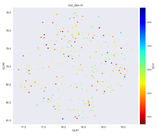


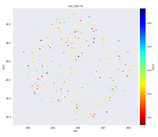


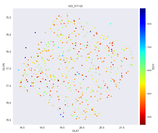


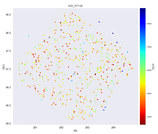


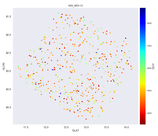


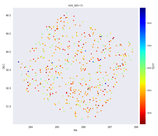


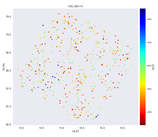


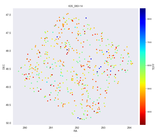


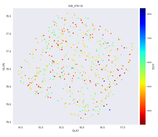


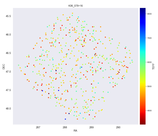


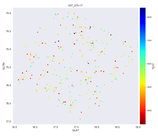


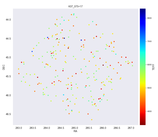


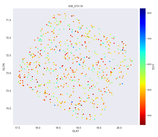


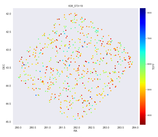

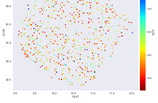
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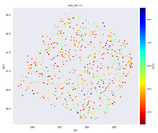
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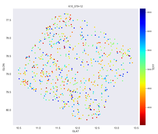
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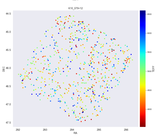
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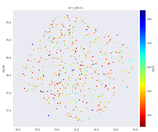
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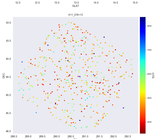
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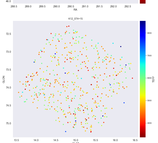
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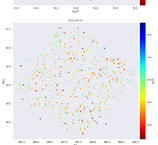
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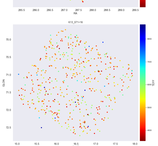
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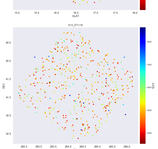
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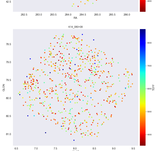
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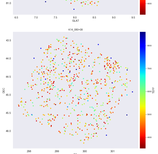
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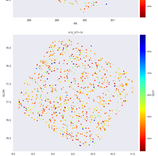
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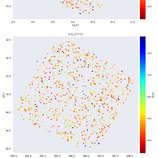
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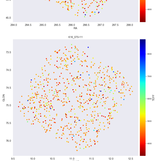
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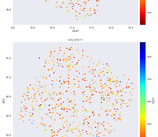
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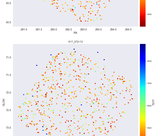
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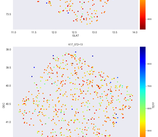
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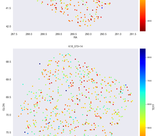
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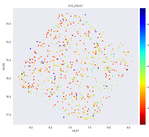
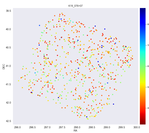
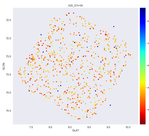
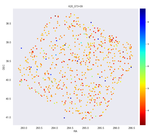
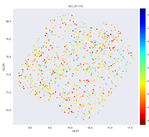
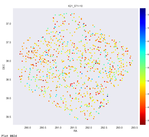


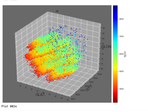



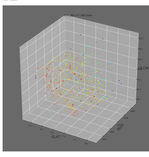



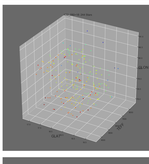



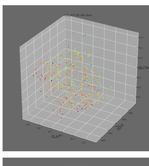

Plot Mesh

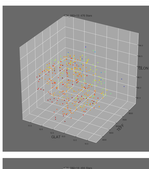


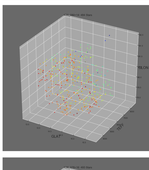

Plot Mesh

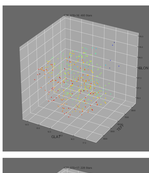


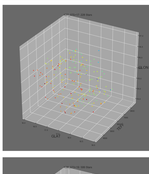



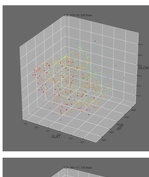



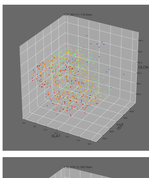



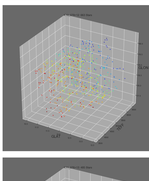



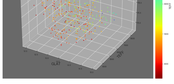



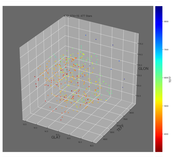



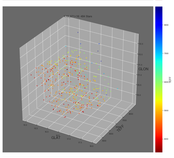



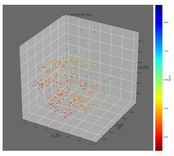



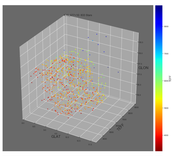



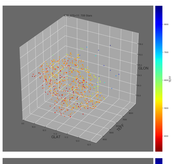


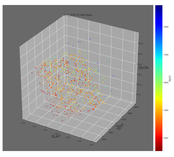


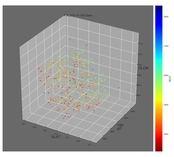


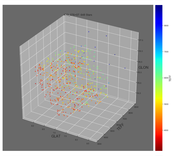


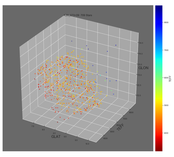


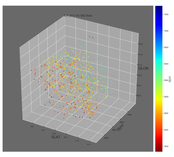


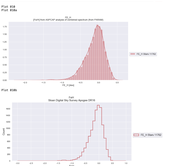




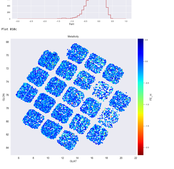




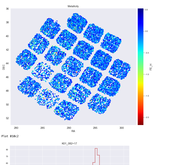




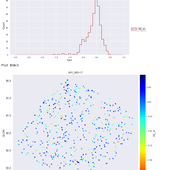
Plot #18
Plot #19b



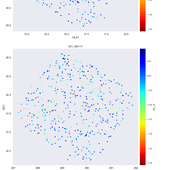

Plot #19c



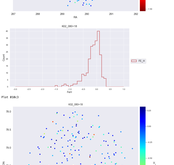

Plot #19d




Plot #19d-2




Plot #19d-3

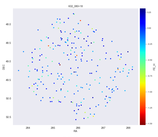


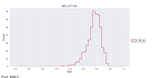







Plot #19d-3

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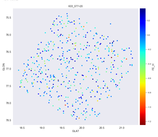


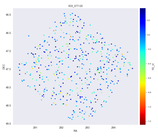

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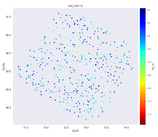


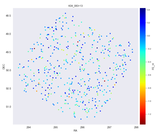

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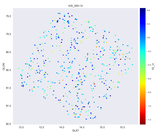


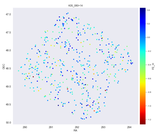

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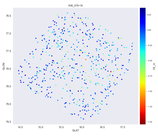


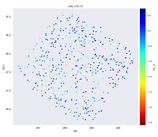


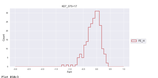


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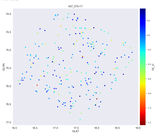


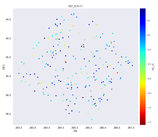

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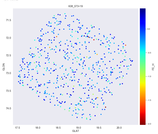


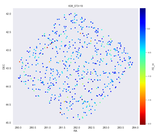


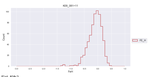


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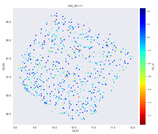
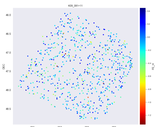
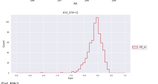
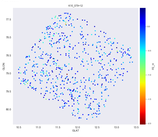
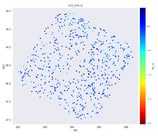





Plot 8/8&3



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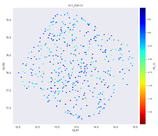
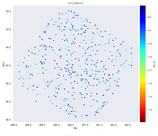
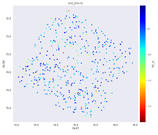
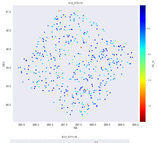


Plot 8/8&3



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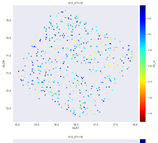
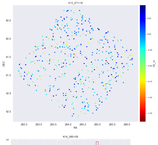
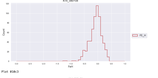
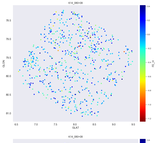
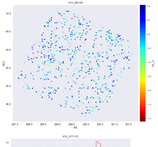


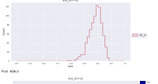



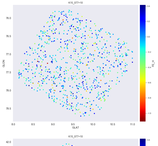

Plot 8/8&3

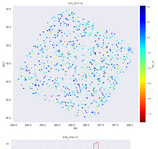


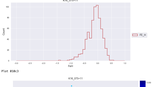



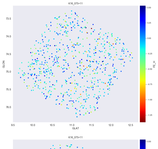

Plot 8/8&3

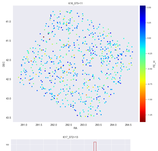


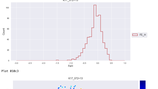




Plot 8/8&3

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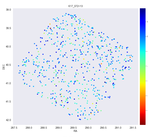

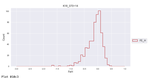

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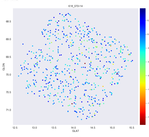

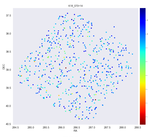

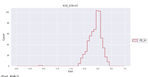

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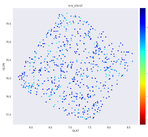

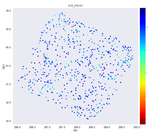

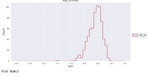

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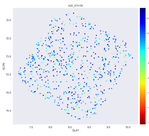

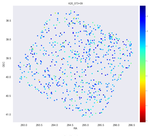

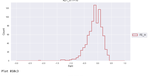

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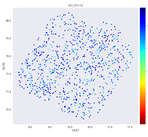

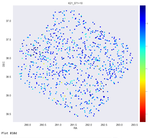

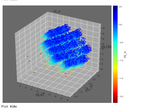

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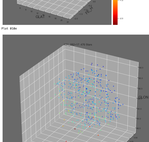

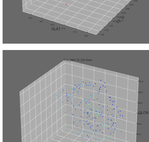

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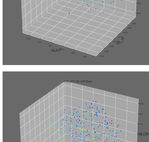

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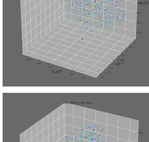

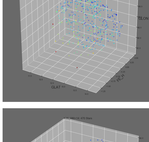

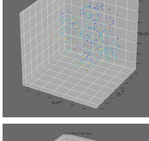

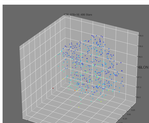

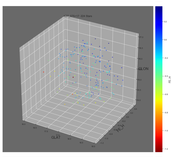
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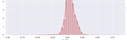
GLY
GLN
GLU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Counts
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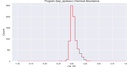
CH_CH Data 7680

CH_CH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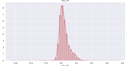
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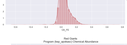
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Counts
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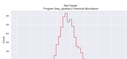
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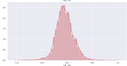
CH_CH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CH_CH

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CH_CH

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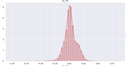
CH_CH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Total Counts
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CH_CH

Total Counts
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Counts
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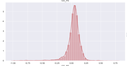
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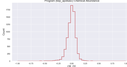
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CH_CH

Total Counts
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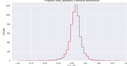
Counts
CH_CH Data 7677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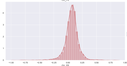
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CH_CH

Total Counts
Program Exp_amino Chemical Abundance
Counts
CH_CH Data 7687


CH_CH

Total Counts
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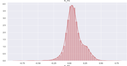
Counts
CH_CH Data 7687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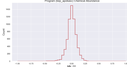
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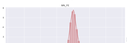
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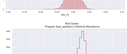
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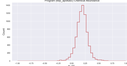
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Total Counts
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Counts
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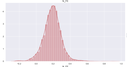
CH_CH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CH_CH

Total Counts
Program Exp_amino Chemical Abundance
Counts
CH_CH Data 8160


CH_CH

Total Counts
Program Exp_amino Chemical Abundance
Counts
CH_CH Data 8160

CH_CH


Total Counts
Program Exp_amino Chemical Abundance
Counts
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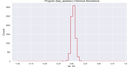
CH_CH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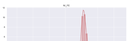
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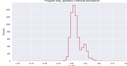
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Total Counts
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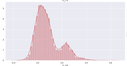
CH_CH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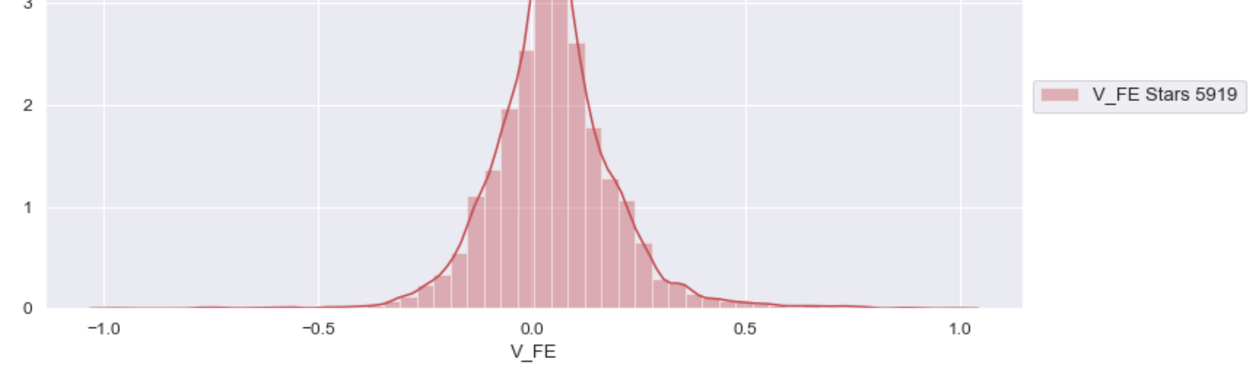


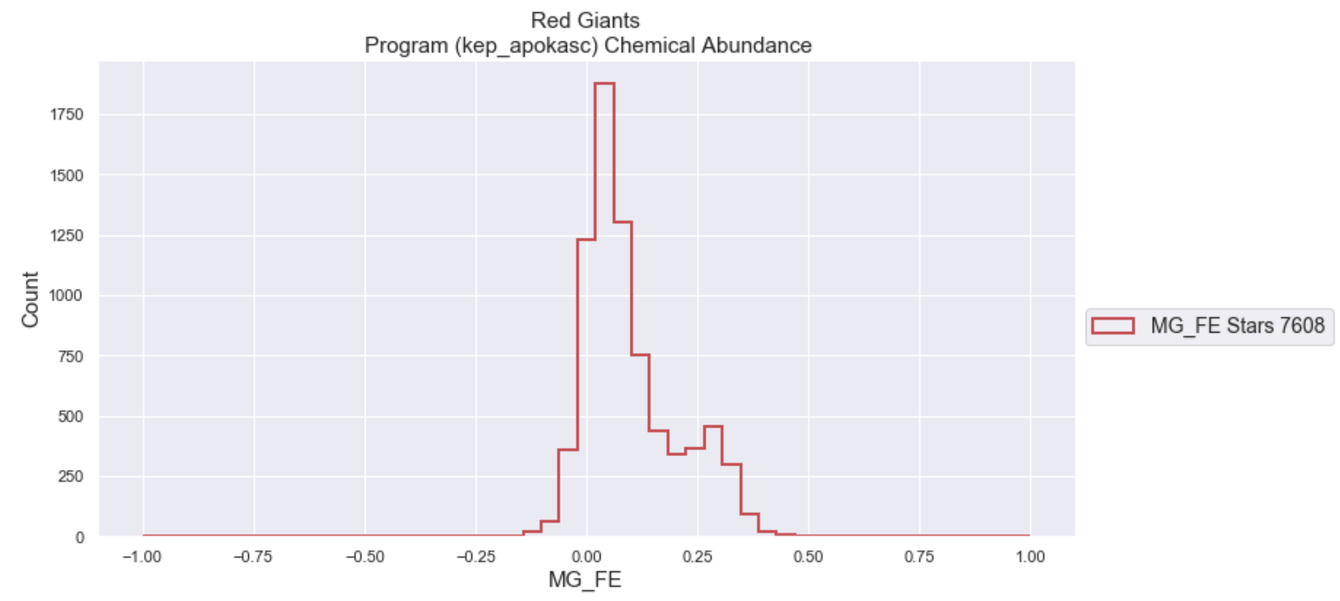


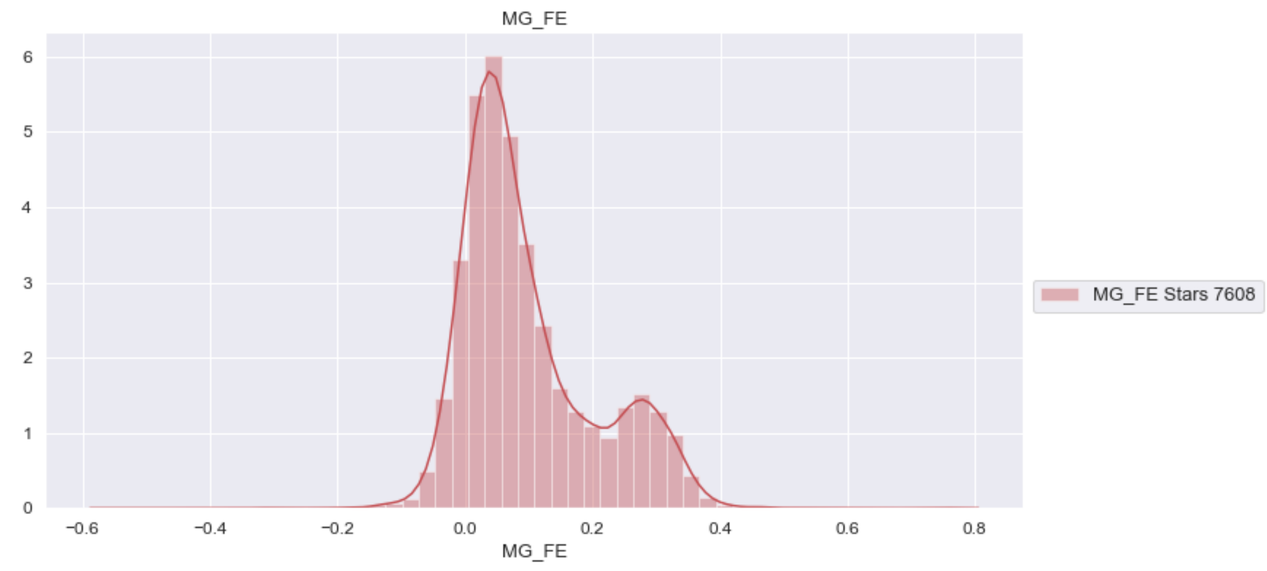


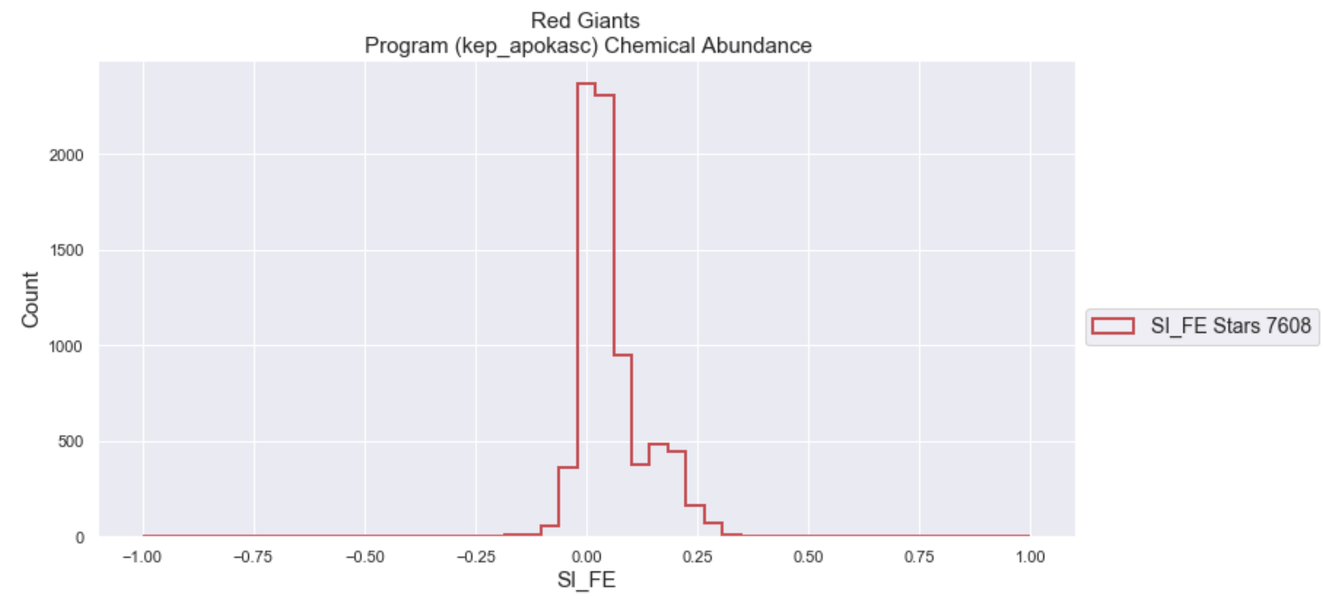


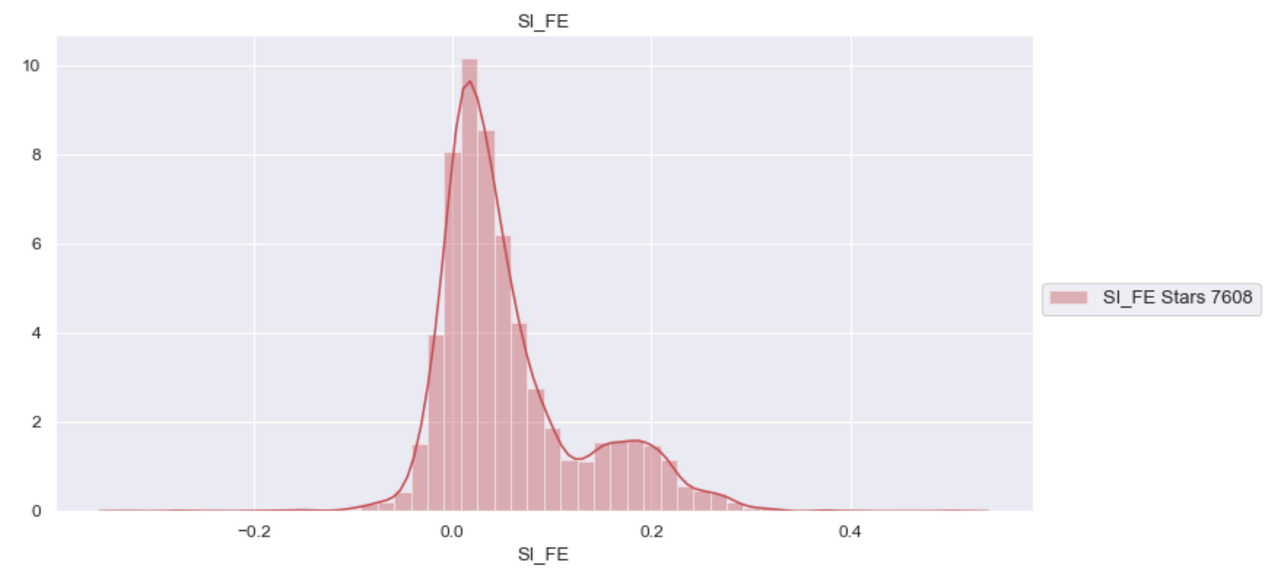


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Class B: 14
Class A: 287
Class F: 1293
Class G: 1995
Class K: 6929
Class M: 1042
Class L: 0
Class T: 0

Fd: 1551
GKd: 2233
GKg: 6753
Md: 51
Mg: 1266

All: Stars 12030

BA: Stars 4

Fd_a: Stars 255
Fd_b: Stars 497
Fd_c: Stars 451
Fd_d: Stars 217

GKd_a: Stars 424
GKd_b: Stars 767
GKd_c: Stars 732
GKd_d: Stars 310

GKg_a: Stars 1201
GKg_b: Stars 2243
GKg_c: Stars 2220
GKg_d: Stars 1089

Md_a: Stars 8
Md_b: Stars 25
Md_c: Stars 11
Md_d: Stars 7

Mg_a: Stars 175
Mg_b: Stars 435
Mg_c: Stars 462
Mg_d: Stars 194

Fields: ['K01_082+17' 'K02_080+18' 'K03_077+20' 'K04_083+13' 'K05_080+14'
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 'K11_076+13' 'K12_074+15' 'K13_071+16' 'K14_080+08' 'K15_077+10'
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 'K21_071+10']

Program: kep_apokasc


Done!
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In [2]: