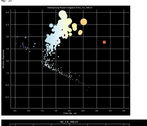
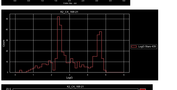
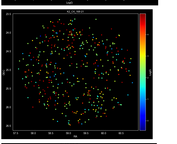
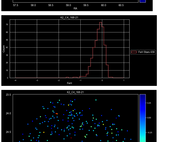
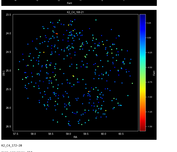
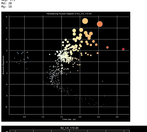
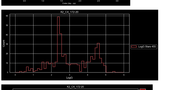
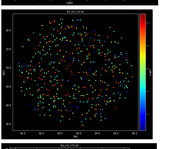
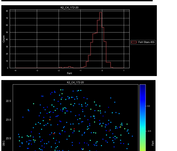
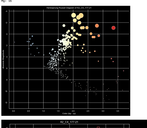
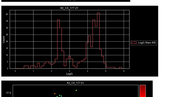
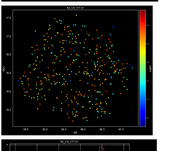
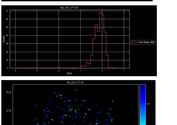
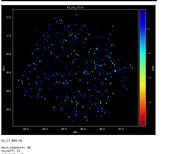
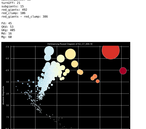
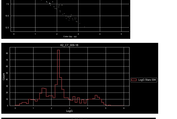
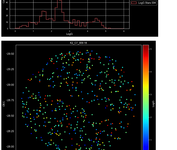
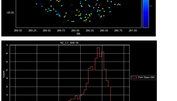
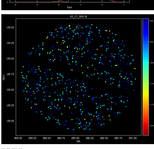
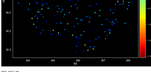
```
Python 3.7.8 (default, Jun 24 2020, 07:20:10)
[GCC 4.8.5 20150623 (Red Hat 4.8.5-44)] on linux2
Type "help", "copyright", "credits" or "license" for more information.
IPython 7.2.0 -- An enhanced Interactive Python.

In [1]: run/usr/share/psrchive/scripts/Appgen By ProgramName -h 1 subint 1.py, wtsrc/share/psrchive/scripts/
/share/psrchive/scripts/wtsrc/share/psrchive
Loading psrchive...

Class 0: 12
Class 1: 1
Class 2: 12187
Class 3: 52148
Class 4: 12187
Class 5: 12148
Class 6: 12187
Class 7: 1219
Class 8: 12

Ch: 42212
Bch: 52148
Ubch: 12187
Nc: 12187
Nb: 12187

#II: Stats 47280?

Nb: Stats 5158

Mg_p: Stats 5158
Mg_n: Stats 10000
Mg_p: Stats 10000
Mg_n: Stats 10000

SNR_p: Stats 20000
SNR_n: Stats 20000
SNR_p: Stats 12051
SNR_n: Stats 12051

Ng_p: Stats 50645
Ng_n: Stats 50645
Ng_p: Stats 50645
Ng_n: Stats 50645

Mg_p: Stats 5158
Mg_n: Stats 7925
Mg_p: Stats 5158
Mg_n: Stats 5158

Mg_p: Stats 12188
Mg_n: Stats 12188
Mg_p: Stats 12188
Mg_n: Stats 12188

Nc: 12188
Nb: 12188

Ng: 50645
Nbch: 52014
Nbg_bch: 1104

trig=: 766

bwstm_thr: 5186

bwrisemm_thr: 264

gwstm_thr: 1980

bstfmean_thr: 4

fbwmeanpm_thr: 762

sstfmfbwm_thr: 5537

ststd_thr: 536

substrlen: 1025

bsmg_thr: 5157

fbsmbmfbsmbm_thr: 6853

fbsmbmfbsmbm_thr: 6153

wstdmean_thr: 2679

wstdmeanpt_thr: 5177

psn: 8248

nsstd1_thr: 3510

Ng: 1299

##########################################################################

##########################################################################

main_sequence: 5113
bumpth: 0.8
subgiants: 35
red_giants: 1299

[Q_CS_J00-01 Q_CS_J19-18# Q_CS_J19-20# Q_CS_J19-21# Q_CS_J7-00#]

##########################################################################

##########################################################################

Q_CS_J00-01

main_sequence: 123
bumpth: 0.8
subgiants: 35
red_giants: 20
Ng: 1299
red_giants - red_clump: 286

Ng: 1299
Nbc: 86
Nbg: 20
Nc: 20
Nb: 20
















Q_CS_J19-18

main_sequence: 1014
bumpth: 0.8
subgiants: 35
red_giants: 284
Ng: 1299
red_giants - red_clump: 384

Ng: 1299
Nbc: 29
Nbg: 284
Nc: 284
Nb: 284
















Q_CS_J7-00

main_sequence: 149
bumpth: 0.8
subgiants: 35
red_giants: 20
Ng: 1299
red_giants - red_clump: 135

Ng: 1299
Nbc: 86
Nbg: 20
Nc: 20
Nb: 20
















Q_CS_J00-10

main_sequence: 35
bumpth: 0.8
subgiants: 35
red_giants: 20
Ng: 1299
red_giants - red_clump: 586

Ng: 1299
Nbc: 86
Nbg: 20
Nc: 20











```

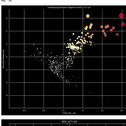


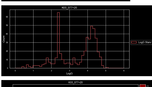


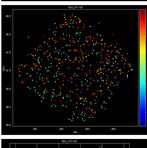
GEO_ETC/GW

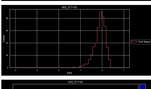
main_separator: 100
subgroup: 1
subgroup: 31
subgroup: 32
red_points: 32
red_clumps: 18
red_clump_ref: red_clump: 003

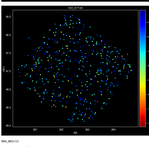
Dy: 20
Dmy: 20
Dmy: 20
Mx: 0
My: 0







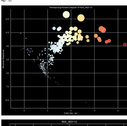


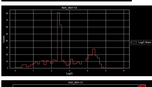


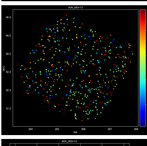
GEO_BEH/CO

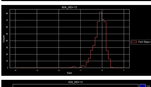
main_separator: 92
subgroup: 1
subgroup: 30
subgroup: 31
red_points: 138
red_clumps: 138
red_clump_ref: red_clump: 233

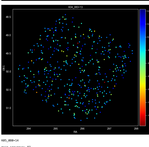
Dy: 35
Dmy: 35
Dmy: 35
Mx: 0
My: 0







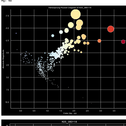


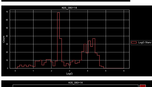


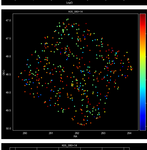
GEO_BEH/CV

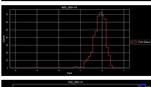
main_separator: 97
subgroup: 1
subgroup: 30
subgroup: 31
red_points: 180
red_clumps: 180
red_clump_ref: red_clump: 291

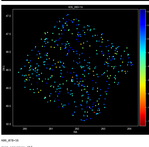
Dy: 115
Dmy: 35
Dmy: 35
Mx: 0
My: 0







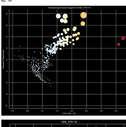


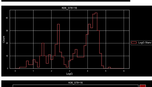


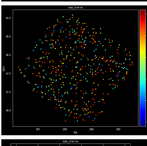
GEO_ETH/CO

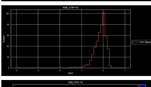
main_separator: 157
subgroup: 1
subgroup: 31
red_points: 234
red_clumps: 234
red_clump_ref: red_clump: 234

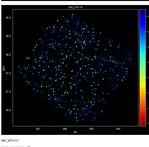
Dy: 30
Dmy: 30
Dmy: 30
Mx: 0
My: 0







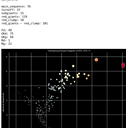


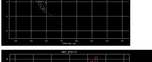


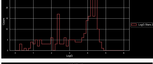
GEO_ETH/CV

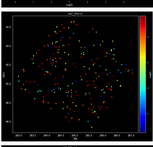
main_separator: 76
subgroup: 1
subgroup: 31
red_points: 156
red_clumps: 156
red_clump_ref: red_clump: 185

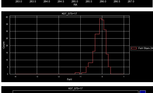
Dy: 40
Dmy: 35
Dmy: 35
Mx: 0
My: 0

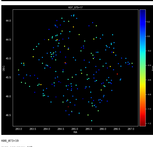








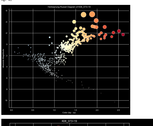


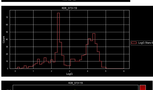


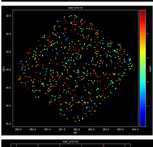
GOR_BF0100

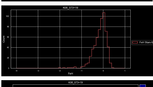
main_separator: 108
subsystem: 0
subsystem: 0
cal_quality: 32
cal_flag: 0
cal_qualm: cal_flag(max: 25)

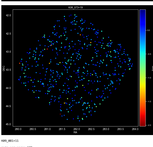
TH: 123
PH: 119
MPH: 123
MPH: 0
Ne: 0







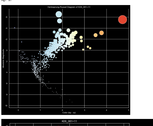


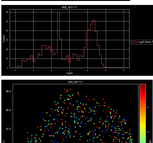


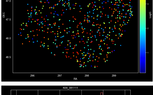
GOR_BF0101

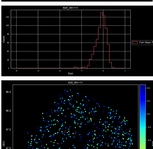
main_separator: 179
subsystem: 0
subsystem: 0
cal_quality: 32
cal_flag: 0
cal_qualm: cal_flag(max: 37)

TH: 152
MPH: 152
MPH: 0
Ne: 0





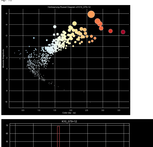


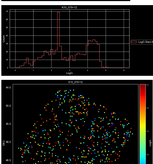


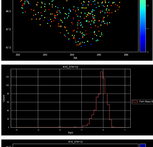
GOR_BF0102

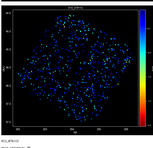
main_separator: 117
subsystem: 0
subsystem: 0
cal_quality: 32
cal_flag: 0
cal_qualm: cal_flag(max: 90)

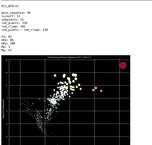
TH: 108
MPH: 108
MPH: 0
Ne: 0







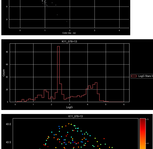


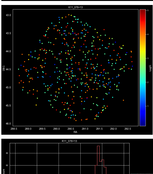


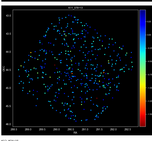
GOR_BF0103

main_separator: 96
subsystem: 0
subsystem: 0
cal_quality: 32
cal_flag: 0
cal_qualm: cal_flag(max: 238

TH: 96
MPH: 96
MPH: 0
Ne: 0

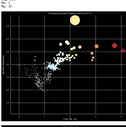


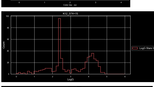


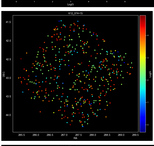


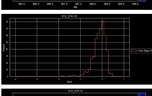
ECLIPSE=C1

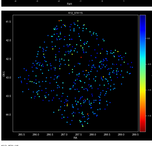
main_sequence= 98
turboff= 0
subgiants= 0
rot_period= 27
rot_period= 27
rot_period= 0
rot_plants = rot_flag: 284
Ou: 0
Ou: 0
May: 83
May: 83
Mu: 0
Mu: 0





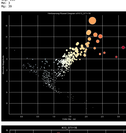


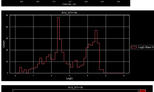


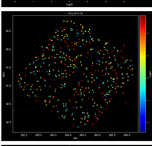


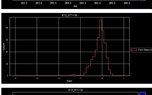
ECLIPSE=D

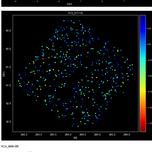
main_sequence= 115
turboff= 0
subgiants= 0
rot_period= 253
rot_period= 0
rot_plants = rot_flag: 254
Ou: 0
Ou: 0
May: 84
May: 84
Mu: 0
Mu: 0





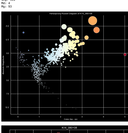


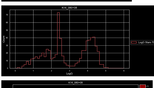


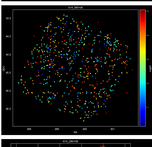


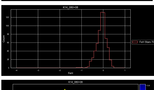
ECLIPSE=E

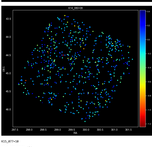
main_sequence= 157
turboff= 0
subgiants= 0
rot_period= 67
rot_period= 67
rot_plants = rot_flag: 575
Ou: 0
Ou: 0
May: 228
May: 228
Mu: 0
Mu: 0





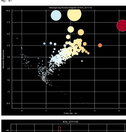


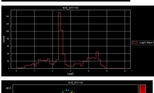


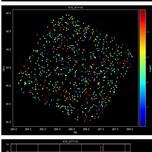


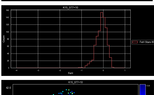
ECLIPSE=F

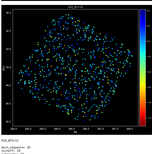
main_sequence= 119
turboff= 0
subgiants= 0
rot_period= 81
rot_period= 81
rot_plants = rot_flag: 481
Ou: 0
Ou: 0
May: 84
May: 84
Mu: 0
Mu: 0





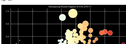


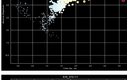


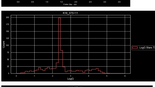


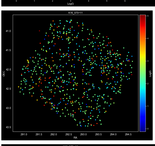
ECLIPSE=G

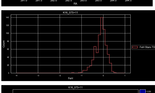
main_sequence= 92
turboff= 0
subgiants= 0
rot_period= 267
rot_period= 267
rot_plants = rot_flag: 307
Ou: 0
Ou: 0
May: 83
May: 83
Mu: 0
Mu: 0

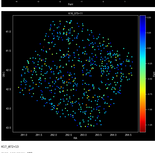








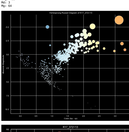


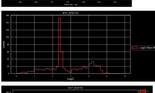


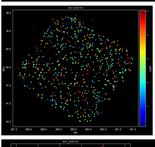
KIC_8010010

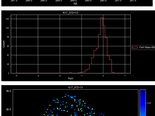
main_sequence: 1892
binaries: 0
subgiants: 37
giants: 1 (0.0%)
red_giants: 38
red_giants - red_clump: 361

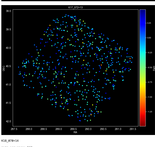
Kp: 12
Mass: 0.8
Rad: 0.9
Teff: 5
Mp: 0.8







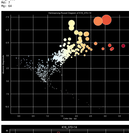


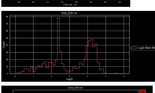


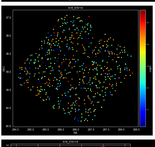
KIC_8750110

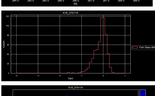
main_sequence: 1896
binaries: 0
subgiants: 40
giants: 1 (0.0%)
red_giants: 41
red_giants - red_clump: 377

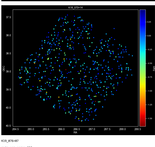
Kp: 12
Mass: 0.8
Rad: 0.9
Teff: 5
Mp: 0.8







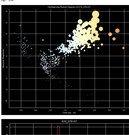


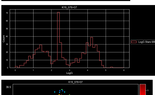


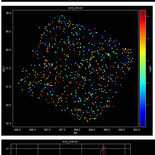
KIC_8750187

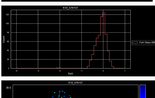
main_sequence: 1719
binaries: 0
subgiants: 32
giants: 1 (0.0%)
red_giants: 33
red_giants - red_clump: 386

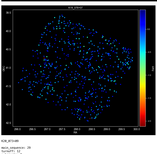
Kp: 12
Mass: 0.8
Rad: 0.9
Teff: 5
Mp: 0.8







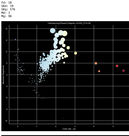


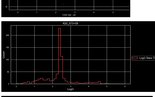


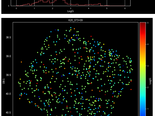
KIC_8750188

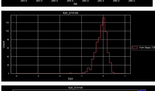
main_sequence: 28
binaries: 0
subgiants: 1
giants: 0 (0.0%)
red_giants: 428
red_giants - red_clump: 377

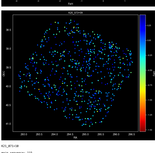
Kp: 12
Mass: 0.8
Rad: 0.9
Teff: 5
Mp: 0.8





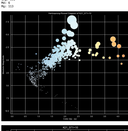


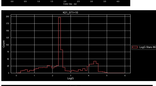


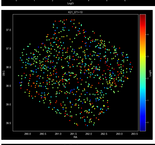


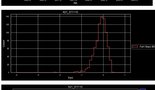
SCS_BTS/CR

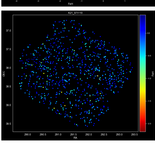
```
main_separator: 125
subgroup: 0
sub_separator: 0
red_points: 416
red_clumps: 240
red_points - red_clump: 413

Dm: 40
Dmp: 22
Dmc: 22
Mc: 0.0
Mp: 0.0
```



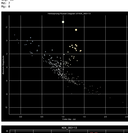


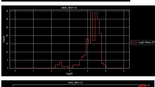


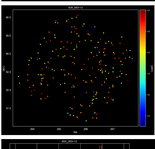


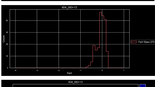


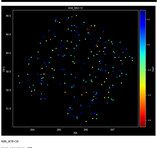

```
Neg.bcc: 1349
==================================================================
==================================================================

main_separator: 312
subgroup: 0
sub_separator: 0
red_points: 0

Files: ['SDSS_BCG/CR' 'SDSS_BTS/CR' 'SCS_BTS/CR' 'K15_BTS/CR']
==================================================================
==================================================================

SDSS_BCG/CR

main_separator: 125
subgroup: 0
sub_separator: 0
red_points: 0
red_clumps: 0
red_points - red_clump: 72

Dm: 38
Dmp: 19
Dmc: 19
Mc: 0.0
Mp: 0.0
```



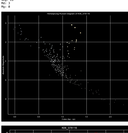


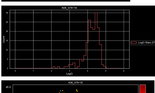


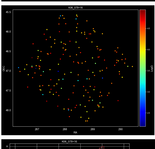


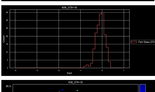


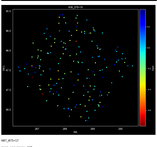
```
SDSS_BTS/CR

main_separator: 185
subgroup: 0
sub_separator: 0
red_points: 0
red_clumps: 0
red_points - red_clump: 184

Dm: 32
Dmp: 16
Dmc: 16
Mc: 0.0
Mp: 0.0
```



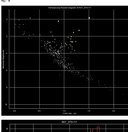


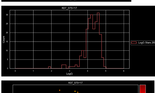


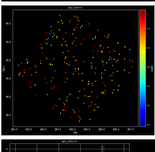


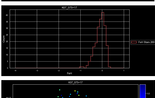


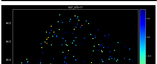
```
K15_BTS/CR

main_separator: 125
subgroup: 0
sub_separator: 0
red_points: 0
red_clumps: 0
red_points - red_clump: 84

Dm: 42
Dmp: 19
Dmc: 19
Mc: 0.0
Mp: 0.0
```

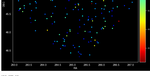








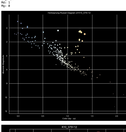


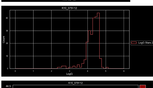


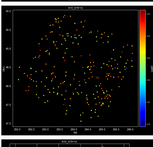
SCR_ATK-02

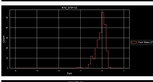
main_sequence: 252
turnoff: 82
subgiants: 8
red_giants: 48
rgb_tips: 2
red_giants - rgb_tips: 44

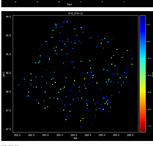
Dy: 0
Mdy: 0
Dy: 29
Mdy: 29
Dy: 0







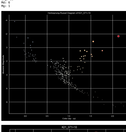


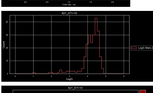


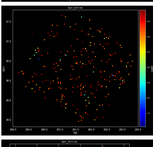
SCR_ATK-03

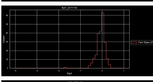
main_sequence: 108
turnoff: 61
subgiants: 0
red_giants: 61
rgb_tips: 14
red_giants - rgb_tips: 47

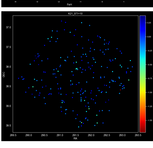
Dy: 0
Mdy: 29
Mdy: 0
Dy: 0











Origin: TMB

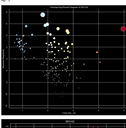
main_sequence: 55
turnoff: 0
subgiants: 0
red_giants: 0

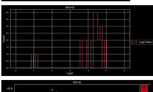
Finished ['BEHAVE', 'MKC', 'RESEARCH']

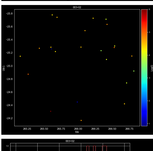
BEHAVE

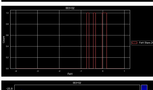
main_sequence: 36
turnoff: 0
subgiants: 2
red_giants: 34
rgb_tips: 0
red_giants - rgb_tips: 225

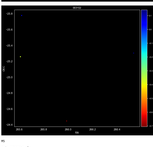
Dy: 0
Mdy: 0
Dy: 0
Mdy: 0
Dy: 0







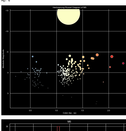


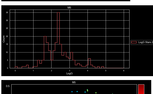


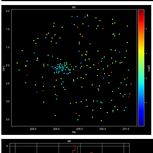
MC

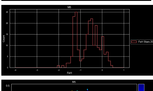
main_sequence: 5
turnoff: 0
subgiants: 0
red_giants: 5
rgb_tips: 0
red_giants - rgb_tips: 282

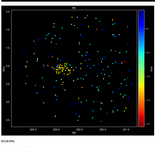
Dy: 0
Mdy: 0
Dy: 29
Mdy: 0
Dy: 0







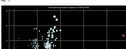


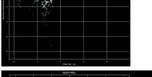


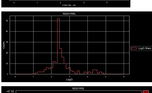
RESEARCH

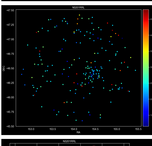
main_sequence: 52
turnoff: 0
subgiants: 0
red_giants: 52
rgb_tips: 0
red_giants - rgb_tips: 178

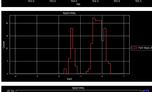
Dy: 0
Mdy: 0
Dy: 29
Mdy: 29
Dy: 0

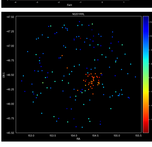










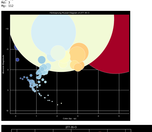


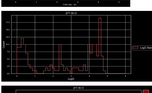
Gaussian_Cube: 5300
Bandwidth: 0.0 km/s
Cube: /home/ubuntu/Desktop/Cube/Cube.fits
This is the primary region cube in combined single-phase APOGEE spectroscopy for the brightest and well-studied Cepheids. The cube is produced by the pipeline described in Cunningham et al. 2020. The cube is centered on the Galactic anticenter, so to study the dispersion of these stars against the mean Galactic rotation, Additional Fainter Cepheids were also targeted.

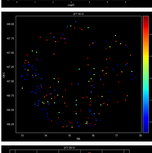
```
*****************************************************************
*****************************************************************

mock_sequence: 200
numpoff: 111
subgalactic: 1
red_galactic: 2100

Fields: [ 277-20-0  279-15-0  279-16-0  279-34-0  280-15-0  280-16-0  283-34-0 ]

*****************************************************************
*****************************************************************
```

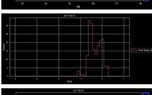
277-20-0

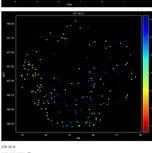
```
mock_sequence: 40
numpoff: 71
subgalactic: 1
red_galactic: 100
subgalactic: 0
red_galactic = red_clump: 170

Dec: 0
Wdec: 20
Ndec: 15
Wra: 20
Nra: 15
```





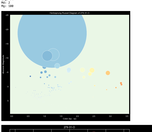


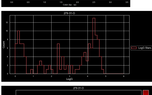


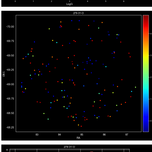


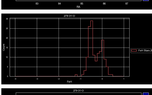
278-15-0

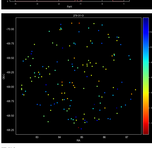
```
mock_sequence: 40
numpoff: 71
subgalactic: 1
red_galactic: 100
subgalactic: 0
red_galactic = red_clump: 200

Dec: 0
Wdec: 20
Ndec: 15
Wra: 20
Nra: 15
```





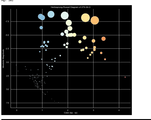


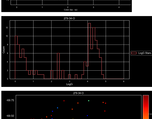


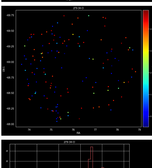


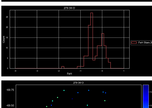
279-16-0

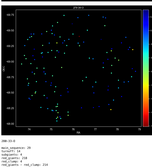
```
mock_sequence: 30
numpoff: 61
subgalactic: 1
red_galactic: 1
red_clump: 1
red_galactic = red_clump: 100

Dec: 0
Wdec: 20
Ndec: 15
Wra: 20
Nra: 15
```





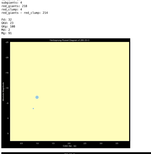


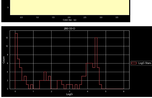


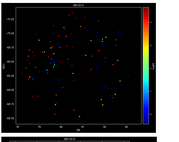


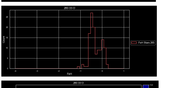
280-15-0

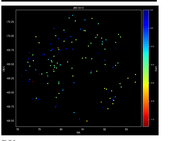
```
mock_sequence: 20
numpoff: 51
subgalactic: 1
red_galactic: 1
red_clump: 1
red_galactic = red_clump: 210

Dec: 0
Wdec: 20
Ndec: 15
Wra: 20
Nra: 15
```







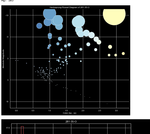


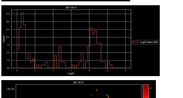


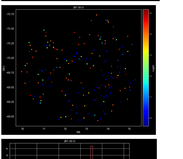
2011-10-0

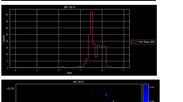
main_sequence: 98
turboFit: 0
subgiants: 0
redgiants: 0
red_clump: 0
red_giants + red_clump: 105

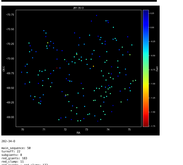
Dec: 0B
Ndec: 2B
Mag: 0A
Nmag: 0A
Mag_Dec: 0A







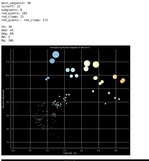


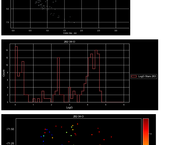


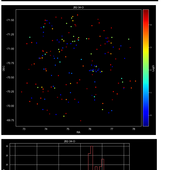
2011-10-0

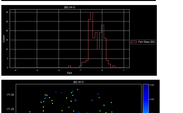
main_sequence: 58
turboFit: 0
subgiants: 0
redgiants: 0
red_clump: 63
red_giants + red_clump: 172

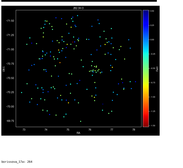
Dec: 0A
Ndec: 2B
Mag: 0A
Nmag: 0A
Mag_Dec: 0A











berzosa_lhc 264

berzosa_lhc 264
The Berzosa Lithium Chart-Checking complex (LHC) is one of the most luminous H II regions in the Galaxy, with extensive photoionized cavity and evidence of star formation.
The LHC is located in the Galactic Plane, at a distance of 5.7 kpc from the Sun.
The LHC is located in the Galactic Plane, 0000-00 DEGREES Galactic, and Galactic longitude and latitude is 0 DEGREES and 0 DEGREES.

##
##

main_sequence: 22
turboFit: 0
subgiants: 0
redgiants: 0
red_clump: 0

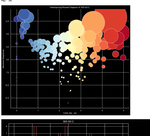
Fields: 0°00:00°C

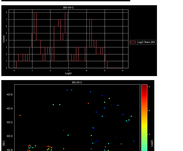
##
##

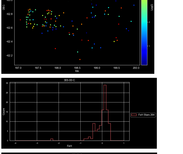
2011-08-0

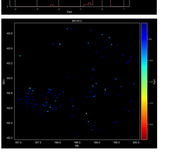
main_sequence: 22
turboFit: 0
subgiants: 0
redgiants: 0
red_clump: 0
red_giants + red_clump: 222

Dec: 0B
Ndec: 2B
Mag: 0A
Nmag: 0A
Mag_Dec: 0A









gorlin_2ba: 3383

gorlin_2ba: 3383
Are Galaxy Clusters Accreted on Convergent?
The Galaxy Cluster Survey (GCS) is a large number of galactic clusters (GCs).
These objects are powerful cosmological probes to investigate the formation and chemical evolution of the Universe, and to understand the nature of dark matter and dark energy. The GCS is located in the full sample of the Galaxy Cluster Survey to have enough GCs scattered and to reach high distances.
The GCS is located in the Galactic Plane, 0000-00 DEGREES Galactic, and Galactic longitude and latitude is 0 DEGREES and 0 DEGREES.
By observing in the near-IR, allowing us to exploit the Bulge II's extraordinary astrophysical potential, the GCS will provide a unique opportunity to study the Galaxy Cluster Survey (GCS) and both GCs Survey. The goal of GCS2000 is to observe ALL of the existing GCs.
The GCS is a large number of galactic clusters (GCs). The GCS is located in the Galactic Plane and of 0000-00. These observations will allow us to perform a definitive study of the Bulge II system, as well as investigated many outlier metric concerning chemistry, multiple populations, orbits, etc.

##
##

main_sequence: 27
turboFit: 0
subgiants: 0
redgiants: 3266

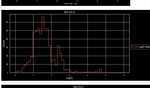
Fields: 2°00:45°C '0:0:45°C '2°:45°C

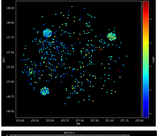
##
##

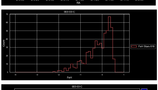
2011-07-0

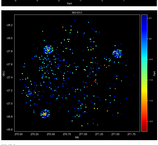
main_sequence: 7
turboFit: 0
subgiants: 0
redgiants: 0
red_clump: 0
red_giants + red_clump: 539

Dec: 0A
Ndec: 2B
Mag: 0A
Nmag: 0A
Mag_Dec: 0A





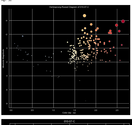


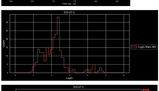


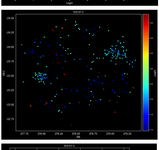
0140-07-0

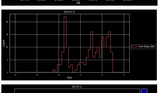
main_sequence: 12
subgroup: 1
subgroup_id: 1
num_pixels: 24
cnt_pixels: 24
cnt_pixels + cnt_flag: 212

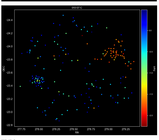
Dec: 0
Ra: 0
Mag: 0.00
Mu: 0
Nu: 0







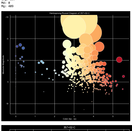


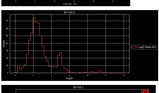


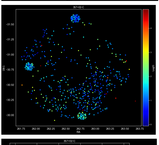
0140-07-1

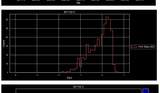
main_sequence: 8
subgroup: 4
subgroup_id: 4
num_pixels: 314
cnt_pixels: 314
cnt_pixels + cnt_flag: 500

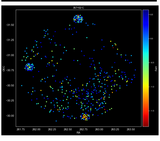
Dec: 1
Ra: 0
Mag: 0.37
Mu: 0
Nu: 340











Gulliver

C) 1 Gulliver (0CZ)
This Gulliver program collects single-phase spectra for PM signal variation in the Galactic Ridge.

```
*****************************************************************************
*****************************************************************************
```

main_sequence: 23B
subgroup: 1
subgroup_id: 1
num_pixels: 21

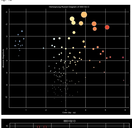
Flatly: {"0000:00:0" "0000:00:0" "0000:01:0" "0000:04:0" "0001:01:0"
"0001:04:0" "0001:05:0" "0014:01:0" "0021:01:0" "0021:05:0" "0021:06:0"
"0021:07:0" "0021:08:0" "0021:09:0" "0021:10:0" "0021:11:0" "0021:12:0"
"0021:13:0" "0021:14:0" "0021:15:0" "0021:16:0" "0021:17:0"
"0021:18:0" "0021:19:0" "0021:20:0" "0021:21:0" "0021:22:0"
"0021:23:0" "0021:24:0" "0021:25:0" "0021:26:0" "0021:27:0"
"0021:28:0" "0021:29:0" "0021:30:0" "0021:31:0" "0021:32:0"

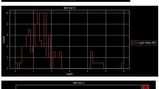
```
*****************************************************************************
*****************************************************************************
```

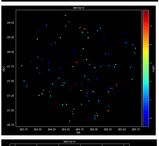
0000-00-0

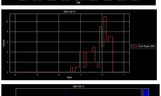
main_sequence: 8
subgroup: 1
subgroup_id: 1
num_pixels: 4
cnt_pixels: 4
cnt_pixels + cnt_flag: 240

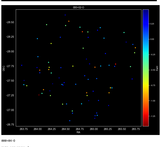
Dec: 0
Ra: 0
Mag: 0
Mu: 0
Nu: 0

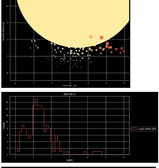








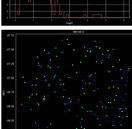


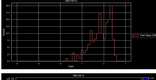


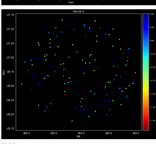
0000-00-0

main_sequence: 4
subgroup: 1
subgroup_id: 1
num_pixels: 24
cnt_pixels: 24
cnt_pixels + cnt_flag: 240

Dec: 0
Ra: 0
Mag: 0
Mu: 0
Nu: 0

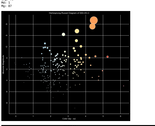


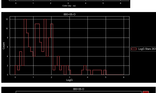


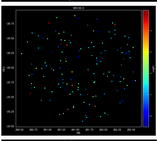


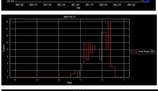
0001-02-0

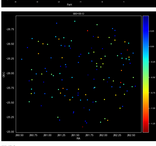
```
main_sequence: 5
turnoff: 0
subgiants: 0
red_giants: 212
rc_giants: 0
red_giants + rc_giants: 249

Cu: 30
Mg: 0
Ba: 0
Mg: 0
Mn: 0
```





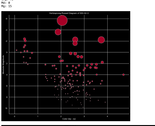


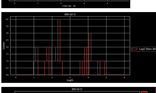


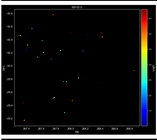


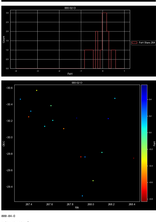
0000-02-0

```
main_sequence: 5
turnoff: 0
subgiants: 0
red_giants: 243
rc_giants: 0
red_giants + rc_giants: 248

Cu: 30
Mg: 0
Ba: 0
Mg: 0
Mn: 0
```



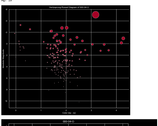


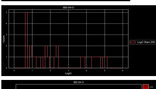


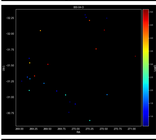


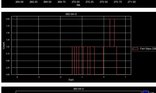
0000-00-0

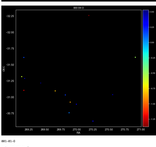
```
main_sequence: 5
turnoff: 0
subgiants: 0
red_giants: 243
rc_giants: 0
red_giants + rc_giants: 246

Cu: 115
Mg: 0
Ba: 0
Mg: 0
Mn: 0
```





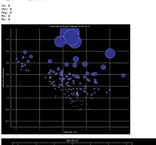


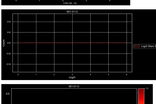


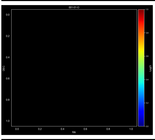


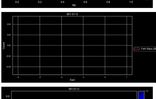
001-00-0

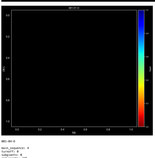
```
main_sequence: 0
turnoff: 0
subgiants: 0
red_giants: 0
rc_giants: 0
red_giants + rc_giants: 350

Cu: 0
Mg: 0
Ba: 0
Mg: 0
Mn: 0
```







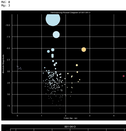


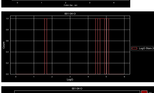


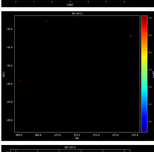
000-00-0

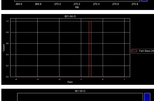
```
main_sequence: 0
turnoff: 0
subgiants: 0
red_giants: 0
rc_giants: 0
red_giants + rc_giants: 345

Cu: 0
Mg: 0
Ba: 0
Mg: 0
Mn: 0
```

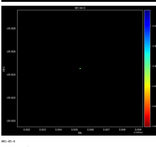
Nu: 0
Mu: 0

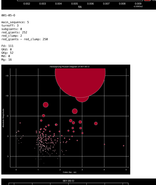

Total Energy Deposit in Fuel (MeV)
Time (sec)

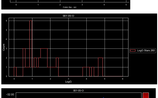

Legal Power (W)
Time

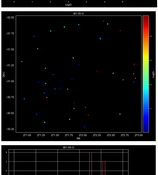

Fuel Power (W)
Time

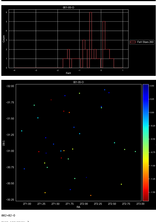

Fuel Power (W)
Time

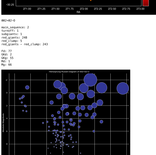

Fuel Power (W)
Time

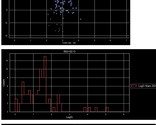

Fuel Power (W)
Time

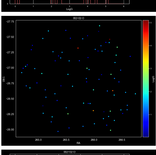

Fuel Power (W)
Time

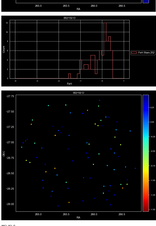

Fuel Power (W)
Time

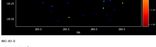

Fuel Power (W)
Time

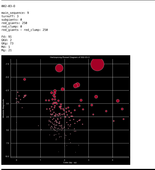

Fuel Power (W)
Time

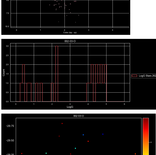

Fuel Power (W)
Time

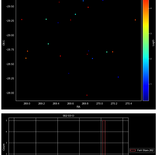

Fuel Power (W)
Time

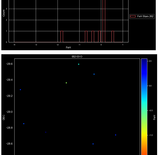

Fuel Power (W)
Time

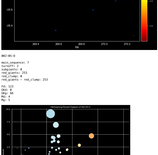

Fuel Power (W)
Time

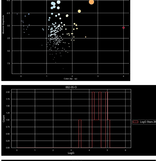

Fuel Power (W)
Time


Fuel Power (W)
Time


Fuel Power (W)
Time


Fuel Power (W)
Time


Fuel Power (W)
Time


Fuel Power (W)
Time

Fuel Power (W)
Time

Fuel Power (W)
Time

Fuel Power (W)
Time

Fuel Power (W)
Time

Fuel Power (W)
Time

Fuel Power (W)
Time

Fuel Power (W)
Time

Fuel Power (W)
Time

Fuel Power (W)
Time

Fuel Power (W)
Time

Fuel Power (W)
Time

Fuel Power (W)
Time

Fuel Power (W)
Time

Fuel Power (W)
Time

Fuel Power (W)
Time

Fuel Power (W)
Time

Fuel Power (W)
Time

Fuel Power (W)
Time

Fuel Power (W)
Time

Fuel Power (W)
Time

Fuel Power (W)
Time

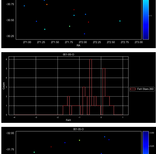
Fuel Power (W)
Time

Fuel Power (W)
Time

Fuel Power (W)
Time

Fuel Power (W)
Time

Fuel Power (W)
Time


Fuel Power (W)
Time

Fuel Power (W)
Time

Fuel Power (W)
Time

Fuel Power (W)
Time

Fuel Power (W)
Time

Fuel Power (W)
Time

Fuel Power (W)
Time

Fuel Power (W)
Time

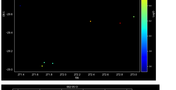
Fuel Power (W)
Time

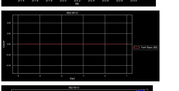
Fuel Power (W)
Time

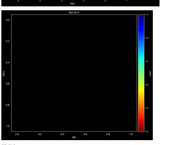
Fuel Power (W)
Time

Fuel Power (W)
Time

Fuel Power (W)
Time

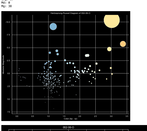


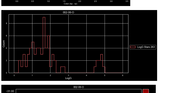


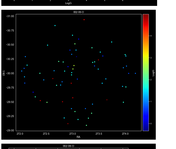


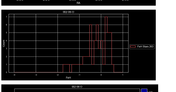
BKG-MB-0

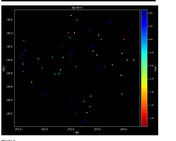
```
main_separator: 5
nsubjettiness: 1
subjettiness: 0
subjettiness: 0.54
rho_cut: 0.1
rho_cut_lower: 250
Cut: 1.2
Bkg: 0
Sig: 0
Tot: 0
```





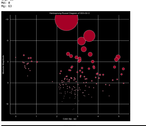


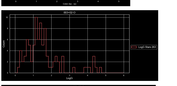


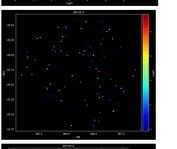


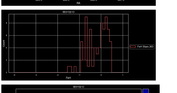
BKG-MB-0

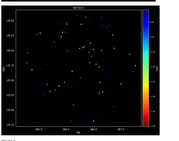
```
main_separator: 5
nsubjettiness: 1
subjettiness: 0
subjettiness: 0.54
rho_cut: 0.1
rho_cut_lower: 252
Cut: 1.2
Bkg: 0
Sig: 0
Tot: 0
```





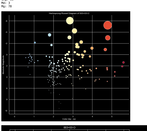


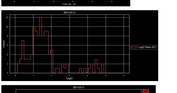


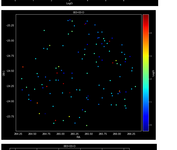


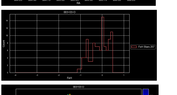
BKG-MB-0

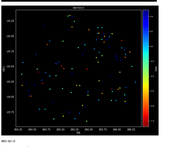
```
main_separator: 5
nsubjettiness: 1
subjettiness: 0
subjettiness: 0.54
rho_cut: 0.1
rho_cut_lower: 240
Cut: 1.2
Bkg: 0
Sig: 0
Tot: 0
```





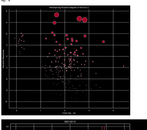


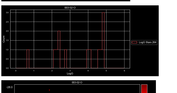


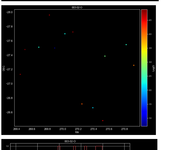


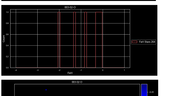
BKG-MB-0

```
main_separator: 5
nsubjettiness: 1
subjettiness: 0
subjettiness: 0.54
rho_cut: 0.1
rho_cut_lower: 250
Cut: 1.2
Bkg: 0
Sig: 0
Tot: 0
```





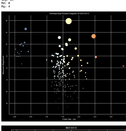


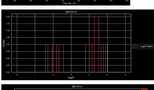


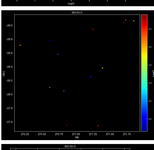
001-03-0

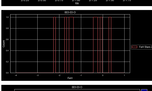
main_sequence: 0
burgerID: 1
subgenID: 1
red_gamma: 254
blue_gamma: 0
red_gamma - red_clump: 252

Dim: 8
Mag: 8
Max: 20
Min: 0
No: 0





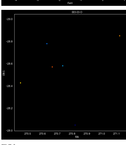


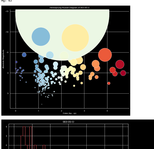


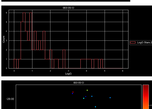
001-03-0

main_sequence: 0
burgerID: 1
subgenID: 1
red_gamma: 254
blue_gamma: 0
red_gamma - red_clump: 100

Dim: 8
Mag: 8
Max: 20
Min: 0
No: 0



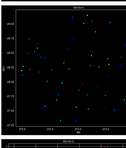


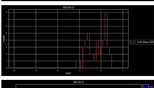


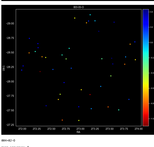
004-03-0

main_sequence: 0
burgerID: 1
subgenID: 1
red_gamma: 254
blue_gamma: 0
red_gamma - red_clump: 250

Dim: 8
Mag: 8
Max: 20
Min: 0
No: 0



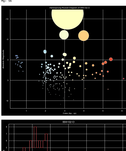


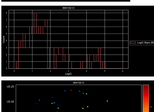


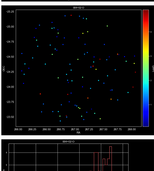
004-03-0

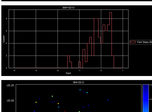
main_sequence: 0
burgerID: 1
subgenID: 1
red_gamma: 254
blue_gamma: 0
red_gamma - red_clump: 250

Dim: 8
Mag: 8
Max: 20
Min: 0
No: 0





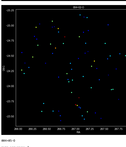


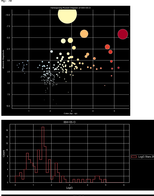


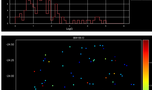
004-03-0

main_sequence: 7
burgerID: 1
subgenID: 1
red_gamma: 254
blue_gamma: 0
red_gamma - red_clump: 250

Dim: 108
Mag: 8
Max: 20
Min: 0
No: 0



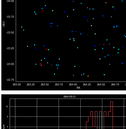


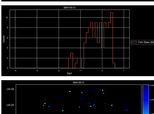


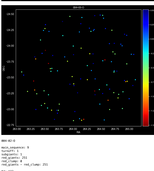
007-03-0

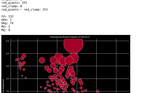
main_sequence: 5
burgerID: 1
subgenID: 1
red_gamma: 4
blue_gamma: 0
red_gamma - red_clump: 251

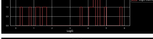
Dim: 128
Mag: 8
Max: 20
Min: 0
No: 0

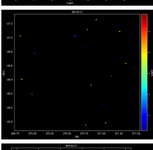


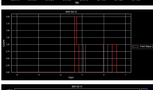


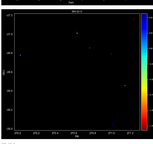








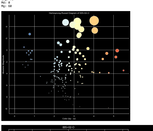


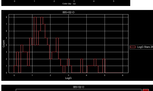


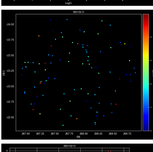
BRF-RD-0

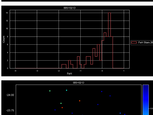
main_separator: 0
hurlpoff: 0
subpoints: 2
rad_points: 250
rad_clamp: 0
rad_clamp_type: rad_clamp: 241

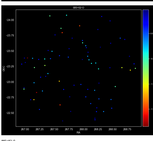
Vis: 85
Amp: 0
Min: 0
Max: 0
Ny: 50







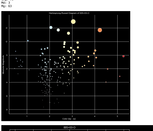


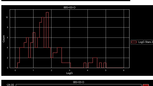


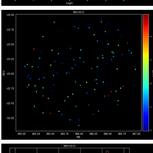
BRF-RD-0

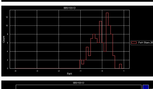
main_separator: 2
hurlpoff: 0
subpoints: 2
rad_points: 250
rad_clamp: 0
rad_clamp_type: rad_clamp: 240

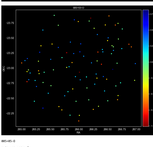
Vis: 85
Amp: 0
Min: 0
Max: 0
Ny: 50







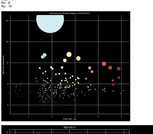


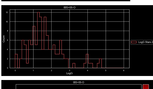


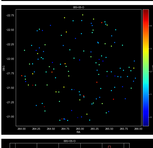
BRF-RD-0

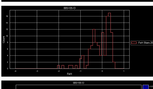
main_separator: 2
hurlpoff: 0
subpoints: 2
rad_points: 250
rad_clamp: 0
rad_clamp_type: rad_clamp: 239

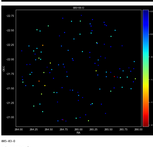
Vis: 85
Amp: 0
Min: 0
Max: 0
Ny: 50







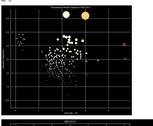


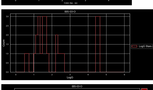


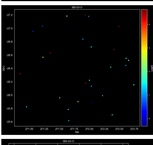
BRF-RD-0

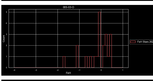
main_separator: 0
hurlpoff: 0
subpoints: 2
rad_points: 250
rad_clamp: 0
rad_clamp_type: rad_clamp: 234

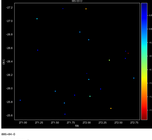
Vis: 126
Amp: 0
Min: 0
Max: 0
Ny: 50





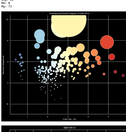


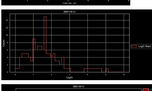


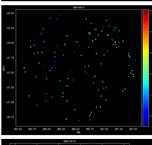


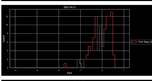
SDH-00-0

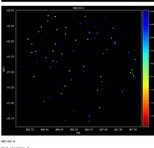
```
main_sequence: 5
subgenre: 0
subgenre: 0
red_giants: 0
red_giants: 0
red_clump: 0
red_clump: 0, red_clump: 247

Fe: 0
Mg: 0
Mg: 0
Ne: 0
Ne: 0
```





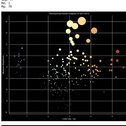


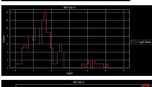


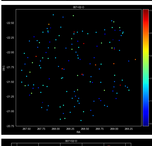


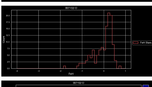
SDT-02-0

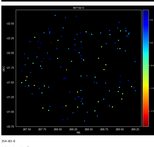
```
main_sequence: 7
subgenre: 0
subgenre: 0
red_giants: 0
red_giants: 0
red_clump: 0, red_clump: 245

Fe: 0
Mg: 0
Mg: 0
Ne: 0
Ne: 0
```





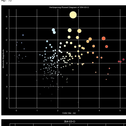


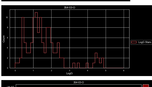


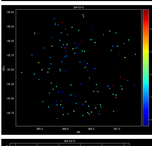


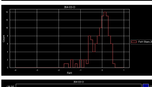
ZZA-02-0

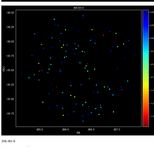
```
main_sequence: 5
subgenre: 0
subgenre: 0
red_giants: 0
red_clump: 0
red_clump: 0, red_clump: 240

Fe: 0
Mg: 0
Mg: 0
Ne: 0
Ne: 0
```





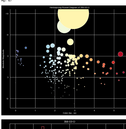


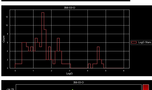


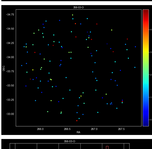


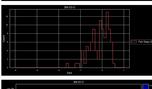
ZZA-03-0

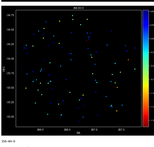
```
main_sequence: 18
subgenre: 0
subgenre: 0
red_giants: 0
red_clump: 0
red_clump: 0, red_clump: 239

Fe: 0
Mg: 0
Mg: 0
Ne: 0
Ne: 0
```





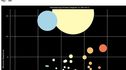


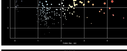


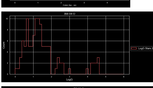


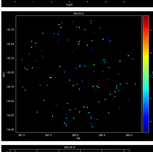
ZZA-04-0

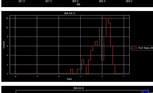
```
main_sequence: 5
subgenre: 0
subgenre: 0
red_giants: 250
red_giants: 0
red_clump: 0
red_clump: 0, red_clump: 251

Fe: 0
Mg: 0
Mg: 0
Ne: 0
Ne: 0
```

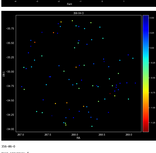






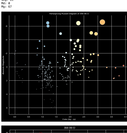


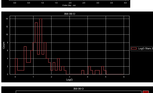


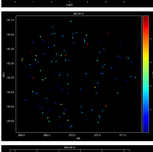


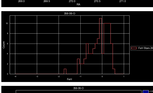
ZX-RR-0

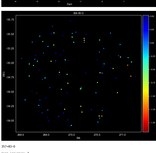
```
main_sequence: 0
turnoff: 0
subgiants: 0
red_giants: 200
white_dwarfs: 0
red_giants - red_clump: 198

Fe: 0
Mg: 0
Mgr: 0
Mn: 0
Ni: 0
```





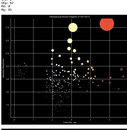


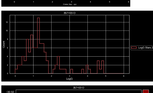


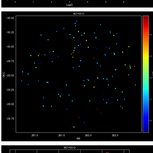


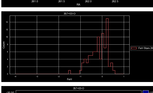
ZY-AD-0

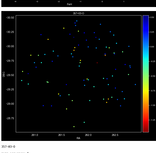
```
main_sequence: 0
turnoff: 0
subgiants: 0
red_giants: 214
white_dwarfs: 0
red_giants - red_clump: 249

Fe: 0
Mg: 0
Mgr: 0
Mn: 0
Ni: 0
```





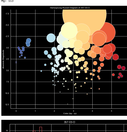


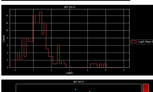


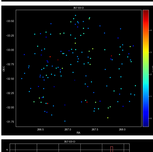


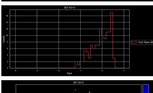
ZT-RD-0

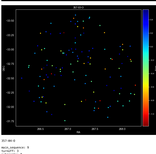
```
main_sequence: 0
turnoff: 0
subgiants: 0
red_giants: 0
white_dwarfs: 0
red_giants - red_clump: 251

Fe: 0
Mg: 0
Mgr: 0
Mn: 0
Ni: 0
```





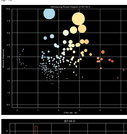


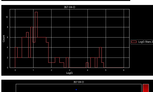


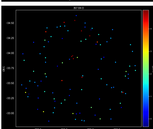


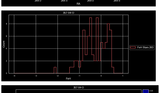
ZU-BD-0

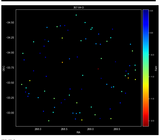
```
main_sequence: 0
turnoff: 0
subgiants: 0
red_giants: 214
white_dwarfs: 0
red_giants - red_clump: 249

Fe: 0
Mg: 0
Mgr: 0
Mn: 0
Ni: 0
```

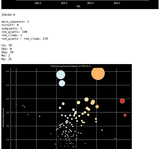






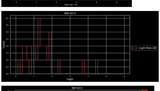


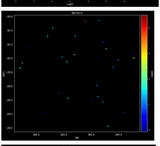


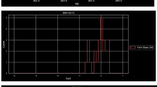


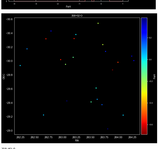
2014-01-0

```
main_sequence: 1
turbulf: 1
subgrids: 0
rad_grains: 0
rad_flamp: 1
rad_grains + rad_flamp: 236

Dx: 2D
Dy: 2D
Dz: 2D
Mx: 0
My: 0
Mz: 0
```

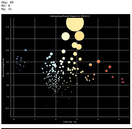


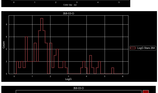


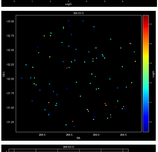


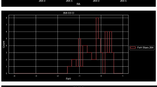
2014-01-0

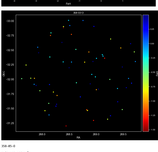
```
main_sequence: 1
turbulf: 1
subgrids: 0
rad_grains: 0
rad_flamp: 1
rad_grains + rad_flamp: 246

Dx: 2D
Dy: 2D
Dz: 2D
Mx: 0
My: 0
Mz: 0
```





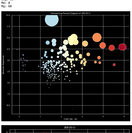


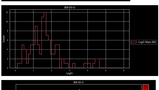


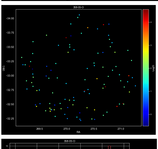


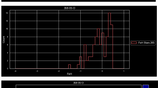
2014-01-0

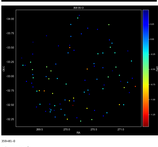
```
main_sequence: 1
turbulf: 1
subgrids: 0
rad_grains: 0
rad_flamp: 1
rad_grains + rad_flamp: 252

Dx: 2D
Dy: 2D
Dz: 2D
Mx: 0
My: 0
Mz: 0
```





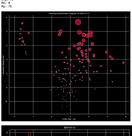


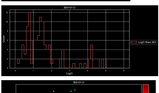


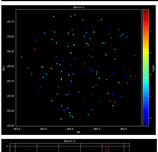


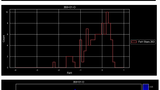
2014-01-0

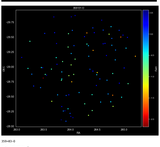
```
main_sequence: 1
turbulf: 1
subgrids: 0
rad_grains: 0
rad_flamp: 1
rad_grains + rad_flamp: 248

Dx: 2D
Dy: 2D
Dz: 2D
Mx: 0
My: 0
Mz: 0
```







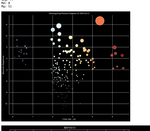


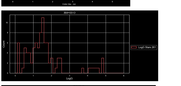


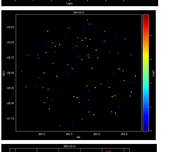
2014-01-0

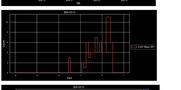
```
main_sequence: 1
turbulf: 1
subgrids: 0
rad_grains: 0
rad_flamp: 1
rad_grains + rad_flamp: 248

Dx: 2D
Dy: 2D
Dz: 2D
Mx: 0
My: 0
Mz: 0
```

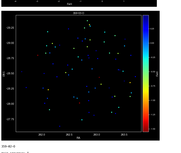
Dec: 0
Day: 0
Hour: 0
Min: 0
Sec: 0







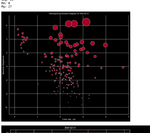


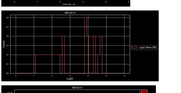


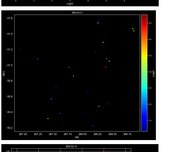
2010-00-0

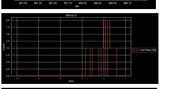
```
main_sequence: 5
turnoff: 0
subgiants: 0
red_giants: 0
red_clump: 0
red_giants - red_clump: 251
```

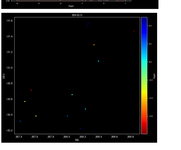
Dec: 127
Day: 0
Hour: 0
Min: 0
Sec: 0











Remnant_Dec: 792

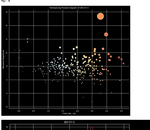
Remnant_Dec CONTRIB:
In an hypothetical, theoretical de-la Sarmar
Its aim is to provide the MPEGDES project is towards a revolution in our understanding of the Milky Way.
The Carina star-forming complexes (CSFCs) contain some of the most massive star-forming regions in the Galaxy.
Its aim is to provide the MPEGDES project is towards a revolution in our understanding of the Milky Way.
This project seeks exploiting of the huge PDF and astrometry of the MPEGDES spectrograph to satisfy:
- Mapping the Galactic structure and kinematics of the Carina star-forming complexes (CSFCs) and
and in the periphery of the regions forming massive stars that are found in the CSFCs.
- Mapping the Galactic structure and kinematics of the Carina star-forming complexes (CSFCs)
using the high-quality radial velocity measurements to derive spectroscopic distances.
- Mapping the Galactic structure and kinematics of the Carina star-forming complexes (CSFCs) using
the high-quality radial velocity measurements to derive spectroscopic distances.
- Mapping the Galactic structure and kinematics of the Carina star-forming complexes (CSFCs) using
the MPEGDES spectrograph

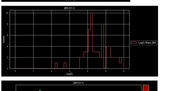
```
##########################################################################
##########################################################################

main_sequence: 75
turnoff: 0
subgiants: 0
red_giants: 400

Fields: [[-163.43,1° -160.43,1° ,-155.00,1°]]

##########################################################################
##########################################################################
```

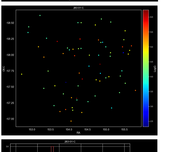
2010-00-0

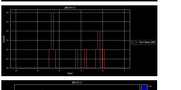
```
main_sequence: 47
turnoff: 15
subgiants: 0
red_giants: 107
red_clump: 0
red_giants - red_clump: 107
```

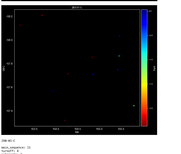
Dec: 0
Day: 0
Hour: 0
Min: 0
Sec: 0







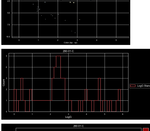


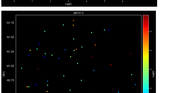


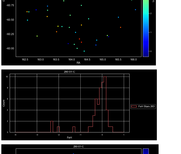
2010-00-0

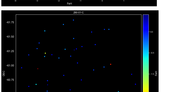
```
main_sequence: 55
turnoff: 0
subgiants: 0
red_giants: 200
red_clump: 0
red_giants - red_clump: 237
```

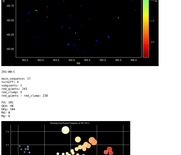
Dec: 0
Day: 0
Hour: 0
Min: 0
Sec: 0







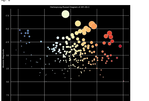


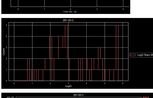


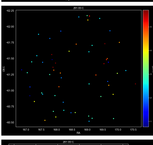
2010-00-0

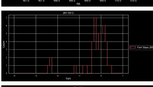
```
main_sequence: 17
turnoff: 0
subgiants: 0
red_giants: 0
red_clump: 0
red_giants - red_clump: 238
```

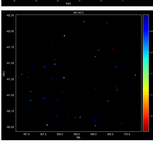
Dec: 0
Day: 0
Hour: 0
Min: 0
Sec: 0











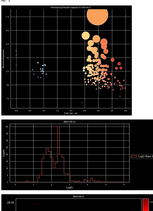
activation_lts: 3357

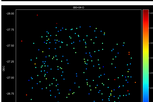
activation_lts: 3357
The cause of the Milky Way gas is thought to be very metallicper stars (i.e., [Fe/H] < -2.0) in the inner halos. The Galactic halo is a fossil of the formation, evolution, and clumping in the early Milky Way made finding metallicmet stars there. Demanding with transitional techniques, In Ultrafaint & Dwarf (DUF), we published an efficient method for finding metallicmet stars in the Galactic halo using photometric and astrometric data. Since the identification of metallicmet stars in the outer halos, We have applied this strategy to Andromeda (M31) and Triangulum (M33) galaxies using Pan-STARRS1 (PS1) photometry. We have found a sample of candidate metallicmet stars with R ≈ 22.5 mag. We expect APOGEE-2S observations of that sample to discover and characterize more than 1,000 metallicmet stars (Fe/H < -2.0 dex).

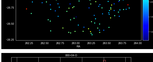
```
#################################################################
#################################################################
#################################################################
#################################################################
#################################################################
#################################################################

main_sequence: 373
turnoff: 0
subgiants: 0
red_giants: 2856

field: [-1000:0:0:0] [-1001:0:0:0] [0001:0:0:0] [0002:0:0:0] [0003:0:0:0]
[0004:0:0:0] [0005:0:0:0] [0006:0:0:0] [0007:0:0:0] [0008:0:0:0]
#################################################################
#################################################################
#################################################################
#################################################################
#################################################################
#################################################################
```

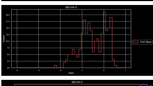
0000-00-0

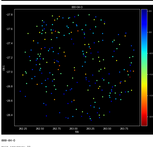
```
main_sequence: 0
turnoff: 0
subgiants: 0
red_giants: 255
red_giants - red_clump: 200

Cls: 0
Obj: 0
Mag: 24
Mag: 24
Mu: 0
```





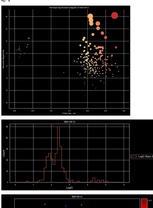


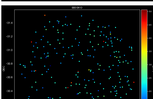


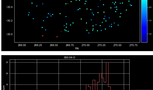


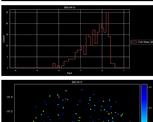
0000-00-0

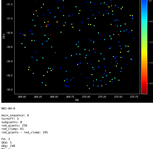
```
main_sequence: 70
turnoff: 0
subgiants: 0
red_giants: 255
red_giants - red_clump: 184

Cls: 0
Obj: 0
Mag: 24
Mag: 24
Mu: 0
```





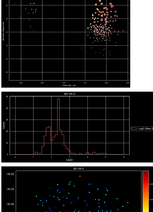


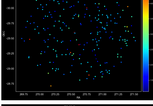


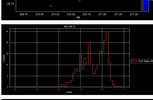


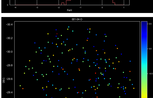
0001-00-0

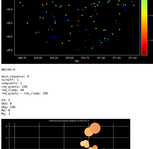
```
main_sequence: 0
turnoff: 0
subgiants: 0
red_giants: 0
red_giants - red_clump: 195

Cls: 0
Obj: 0
Mag: 24
Mag: 24
Mu: 0
```





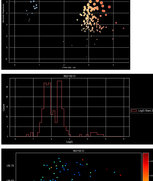


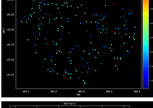


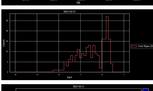


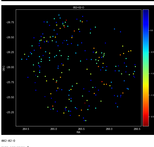
0001-00-0

```
main_sequence: 0
turnoff: 0
subgiants: 0
red_giants: 0
red_giants - red_clump: 190

Cls: 0
Obj: 0
Mag: 24
Mag: 24
Mu: 0
```





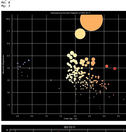


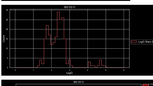


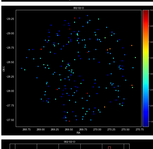
0002-02-0

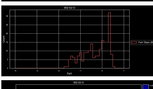
```
main_sequence: 0
halo_mass: 0
subgalaxy: 0
cold_gas_frac: 0
reionization: 42
cool_quench: -nu1_clump: 386
```

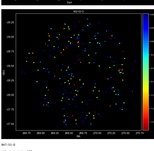
Vir: 0
Mass: 0
Spin: 0.04
Nc: 0
Nu: 0







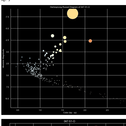


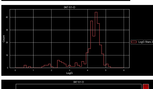


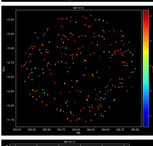
0011-11-0

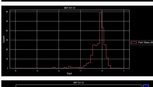
```
main_sequence: 101
halo_mass: 0
subgalaxy: 0
cold_gas_frac: 0
reionization: 42
cool_quench: -nu1_clump: 43
```

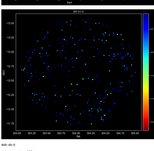
Vir: 0
Mass: 0.04
Spin: 0
Nc: 0
Nu: 0







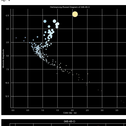


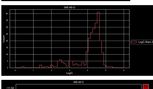


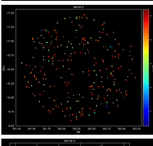
0030-00-0

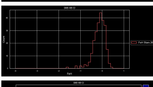
```
main_sequence: 159
halo_mass: 0
subgalaxy: 0
cold_gas_frac: 42
reionization: 0
cool_quench: -nu1_clump: 46
```

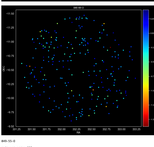
Vir: 0
Mass: 0
Spin: 0.04
Nc: 0
Nu: 0







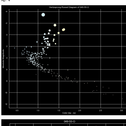


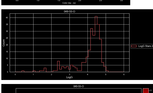


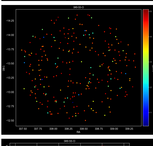
0045-11-0

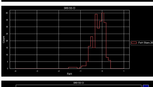
```
main_sequence: 101
halo_mass: 0
subgalaxy: 0
cold_gas_frac: 0
reionization: 42
cool_quench: -nu1_clump: 42
```

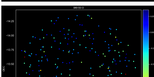
Vir: 0
Mass: 0.04
Spin: 0
Nc: 0
Nu: 0

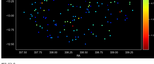






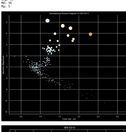


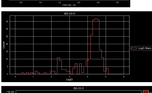


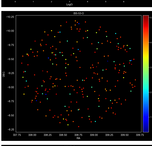


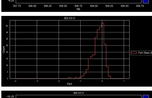
DFX-13-0

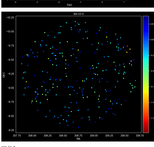
```
main_separator: DEX
tagset: 0
subgenre: 0
rnd_genre: 0
rnd_genre: 0
rnd_genre: 0 rnd_time: 47

Dur: 0
Mag: 0.0
Mag: 0.0
Mag: 0.0
No: 0
```





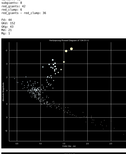


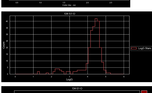


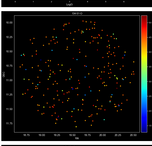


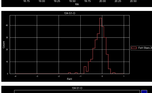
CZW-53-0

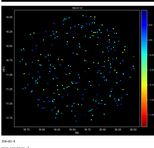
```
main_separator: 172
tagset: 0
subgenre: 0
rnd_genre: 0
rnd_genre: 0
rnd_genre: 0 rnd_time: 56

Dur: 0
Mag: 0.0
Mag: 0.0
Mag: 0.0
No: 0
```





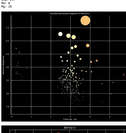


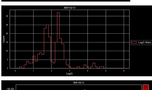


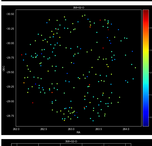


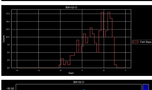
EUH-60-0

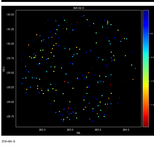
```
main_separator: 7
tagset: 0
subgenre: 0
rnd_genre: 0
rnd_genre: 0
rnd_genre: 0 rnd_time: 215

Dur: 0
Mag: 0.0
Mag: 0.0
Mag: 0.0
No: 0
```





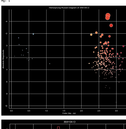


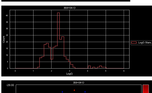


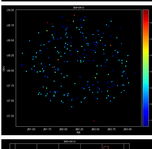


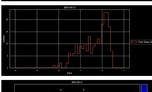
ZUA-84-0

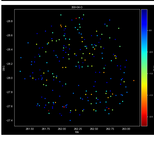
```
main_separator: 0
tagset: 0
subgenre: 0
rnd_genre: 0
rnd_genre: 0
rnd_genre: 0 rnd_time: 261

Dur: 0
Mag: 0
Mag: 0
Mag: 0
No: 0
```



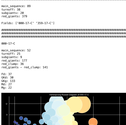


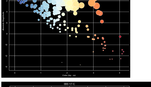


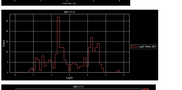


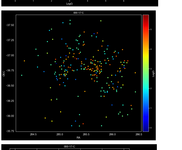


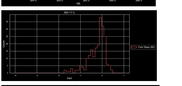

```
start_time: 526

Dorsey, Ben (2005)
Ecology of the Crimson-cheeked Rosefinch (Carpodacus erythrinus roseus) populations in the young coniferous-broadleaved in Europe Australia with AMOUNT-25
an study to study the random variability distribution of young stars in different scientifically stages.

#################################################################################
#################################################################################
#################################################################################

main_separator: 0B
tagset: 0B
subgenre: 0B
rnd_genre: 25

Profile: [7:00h-17:7 - 3:0h-17:7 ]

#################################################################################
#################################################################################
#################################################################################

WBW-57-0

main_separator: 52
tagset: 0
subgenre: 0
rnd_genre: 0
rnd_genre: 0
rnd_genre: 0 rnd_time: 145

Dur: 0
Mag: 0.0
Mag: 0.0
Mag: 0.0
No: 0
```

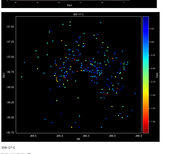









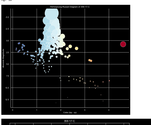


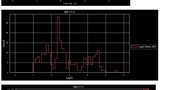


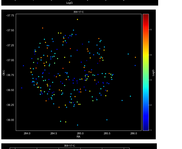
DS-17-7

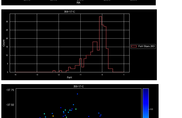
main_sequence: 17
subsplit: 7
subgroup: 12
sub_gamma: 0
red_gamma: 40
red_points: 552

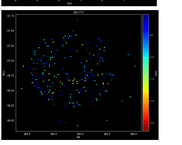
Dec: 22
Ra: 21
Mag: 19
Mu: 0
Nu: 0











subsplit: 1225

Subdivision Comparison NPB0001,TW0273 Kol 29
Dec 0, Group Existence Uncertain:
Subdivision Comparison Kol 29 is an added subsplit Comparison pair science program.
The Subdivision Comparison program is acquiring RR observations over a long baseline baseline for field stars.
The Subdivision Comparison program is acquiring RR observations over a long baseline baseline for field stars.
Metallicities, and further analysis, with this data, we hope to determine the role of the Galactic environment.
Kol 29 is a pair of fields, one of which is a known RR Lyrae Overdensity, and the other is a control field.
Baseline for targets observed in NPB0001 and increased the number of RR measurements to enable robust orbital fits.

==========
==========

subsplit: 1225

main_sequence: 140
subsplit: 1
subgroup: 12
sub_gamma: 0
red_gamma: 0

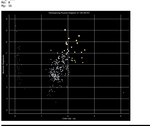
Fields: C"120-00-RV" "150-00-RV" "180-00-RV" "1200252-RV" "N100-RV-1"

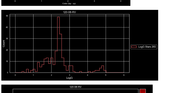
==========
==========

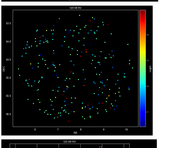
120-00-RV

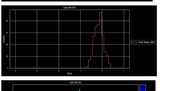
main_sequence: 17
subsplit: 1
subgroup: 0
red_gamma: 40
red_points: 172

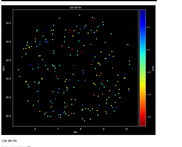
Dec: 0
Ra: 21
Mag: 19
Mu: 0
Nu: 0







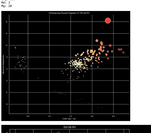


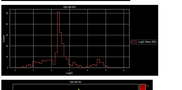


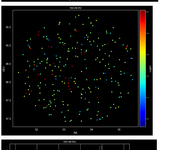
150-00-RV

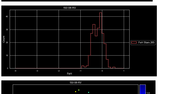
main_sequence: 20
subsplit: 1
subgroup: 0
red_gamma: 0
red_points: 0
red_points - red_clump: 159

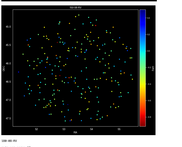
Dec: 0
Ra: 0
Mag: 19
Mu: 0
Nu: 0







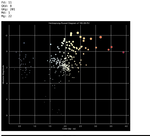


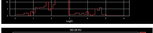


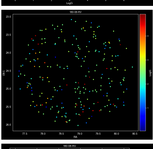
180-00-RV

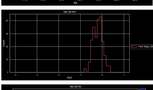
main_sequence: 18
subsplit: 0
subgroup: 0
red_gamma: 0
red_points: 170
red_points - red_clump: 175

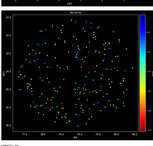
Dec: 0
Ra: 0
Mag: 19
Mu: 0
Nu: 0





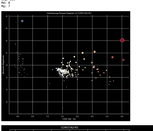


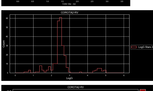


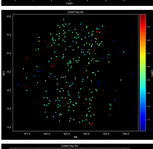


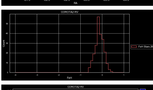
CONTAG-06

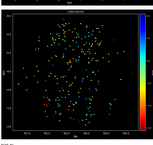
```
main_sequence: 20
subgiants: 0
red_giants: 0
red_clumps: 110
red_clump: red_clump: 129

Dec: 02
Ra: 06
Mag: 213
Ng: 0
Ng: 0
```





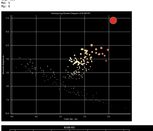


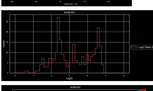


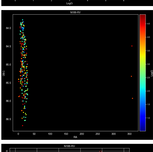


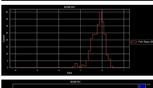
NGC66-09

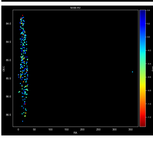
```
main_sequence: 96
subgiants: 10
red_giants: 0
red_clumps: 20
red_clump: 20
red_clump: red_clump: 129

Dec: 00
Ra: 00
Mag: 25
Ng: 0
Ng: 0
```

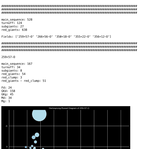










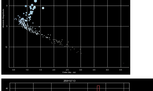


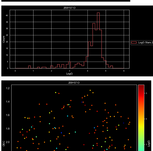
Gemma_Cha: 1312

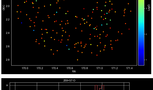
```
Gemma_Cha: 1312
We propose to collect UVES@VLT spectra of bright, cool dwarf stars monitored with
the Kepler satellite in the open cluster NGC 6819 and in the field of the open cluster
NGC6866 and M 67 with:
1) the aim of using these stars to measure stellar parameters and chemical abundances
for Kepler stars on the K2 fields. The scientific goals are:
1) asteroseismology of solar-like stars;
2) to contribute to the gyrochronology relation, and
3) to study the relation between stellar rotation, age, and heavy-element composition.
In particular, M dwarf spectra are of high value in the development of an analysis method
for extracting reliable, detailed abundances of iron-peak elements.

#################################################################################
#################################################################################

main_sequence: 528
subgiants: 0
red_giants: 0
red_clumps: 0

Fields: 2'20h43'0.4' -2d44'0.0' '20h42'0.4' '20h42'0.4' -2d42'0.0'

#################################################################################
#################################################################################
```

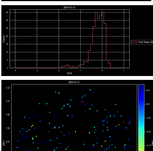
2Ophi-14

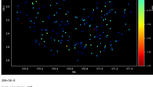
```
main_sequence: 167
subgiants: 0
red_giants: 0
red_clumps: 0
red_clump: red_clump: 51

Dec: 00
Ra: 20
Mag: 250
Ng: 0
Ng: 0
```





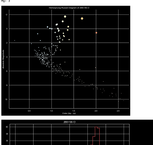


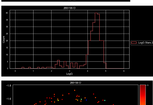


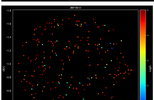


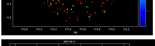
2Ophi-16-0

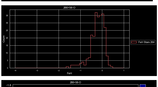
```
main_sequence: 170
subgiants: 0
red_giants: 0
red_clumps: 0
red_clump: red_clump: 38

Dec: 00
Ra: 20
Mag: 250
Ng: 0
Ng: 0
```

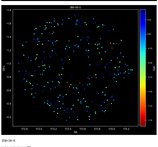








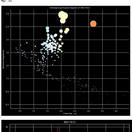


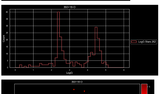


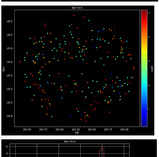
2014-10-8

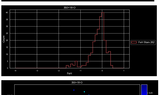
mcmc_sequence: 80
burnin: 0
subpixels: 4
red_pixels: 283
Mag: 19.5
red_pixels - red_clump: 96

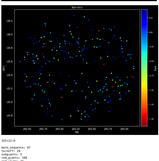
Dec: 17
Mag: 17
Mc: 17
Mu: 17







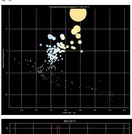


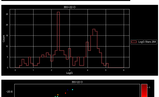


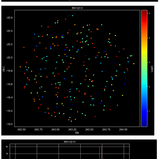
2014-11-9

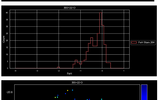
mcmc_sequence: 97
burnin: 0
subpixels: 4
red_pixels: 340
Mag: 19.5
red_pixels - red_clump: 115

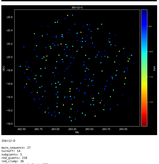
Dec: 18
Mc: 18
Mag: 19.5
Mu: 18
Mu: 18







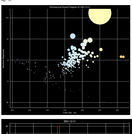


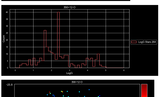


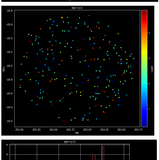
2014-12-9

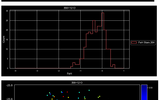
mcmc_sequence: 27
burnin: 0
subpixels: 4
red_pixels: 318
Mag: 19.5
red_pixels - red_clump: 102

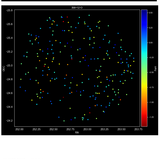
Dec: 11
Mc: 11
Mag: 19
Mu: 11







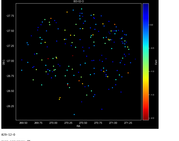




Tsuneharibaru,LTD. 8452

Tsuneharibaru,LTD. 8452
We have made a complete survey of bright, cool dwarf stars monitored with the K2 ecliptic survey, including stars found via the K2 light curves to host planet candidates and M dwarf stars. We have found that the stellar mass and radius of the host planet candidates and M dwarf stars in the K2 campaign fields. The science goals are:
(1) Deriving the stellar mass and radius,
(2) Deriving the age-activity relation, and
(3) Deriving the age-activity-mass-radius-metallicity-rotation-temperature-composition.
In particular, M dwarf seems to be useful value in the development of an analysis method for extracting the age information from the light curve.

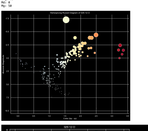
#

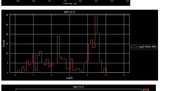


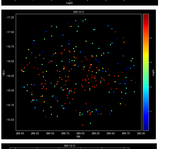
0230-52-0

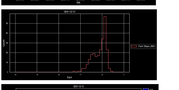
main_sequence: 95
subgiants: 0
redgiants: 0
red_giants: 14
red_clump: 10
red_giants - red_clump: 130

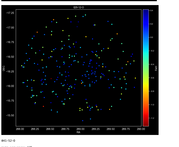
Dec: 0
Ebv: 0
Mag: 18
Mv: 0
Mu: 0







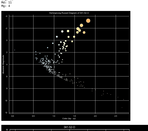


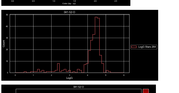


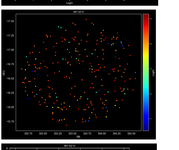
0231-52-0

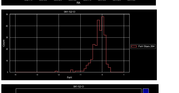
main_sequence: 175
subgiants: 0
redgiants: 0
red_giants: 0
red_clump: 0
red_giants - red_clump: 39

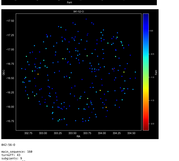
Dec: 0
Ebv: 267
Mag: 17
Mv: 0
Mu: 0







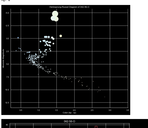


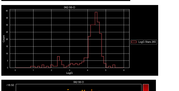


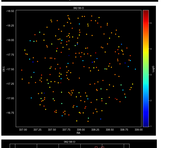
0232-52-0

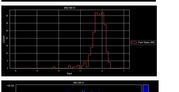
main_sequence: 158
subgiants: 0
redgiants: 0
red_giants: 0
red_clump: 10
red_giants - red_clump: 48

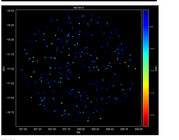
Dec: 0
Ebv: 212
Mag: 17
Mv: 0
Mu: 0







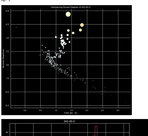


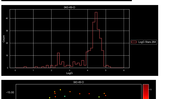


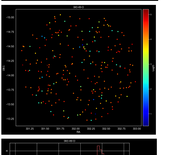
0233-52-0

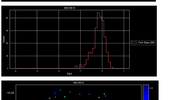
main_sequence: 163
subgiants: 0
redgiants: 0
red_giants: 0
red_clump: 0
red_giants - red_clump: 43

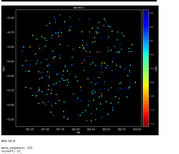
Dec: 0
Ebv: 0
Mag: 18
Mv: 0
Mu: 0







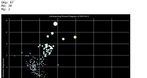


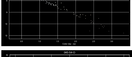


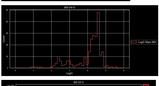
0234-52-0

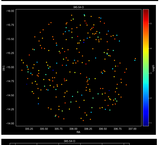
main_sequence: 153
subgiants: 0
redgiants: 0
red_giants: 0
red_clump: 10
red_giants - red_clump: 42

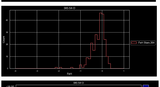
Dec: 0
Ebv: 0
Mag: 17
Mv: 0
Mu: 0

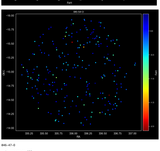








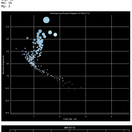


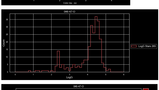


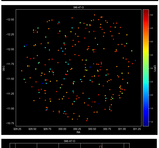
0040-07-0

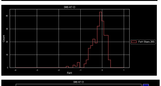
main_sequence: 1013
turnoff: 35
subgiants: 0
red_giants: 63
rr_lyrae: 0
red_giants - rr_lyrae: 47

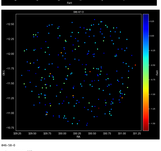
Dec: 0
Mag: 19
Mag: 18
Mag: 17
Mag: 0







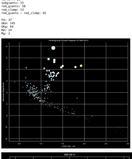


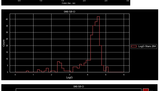


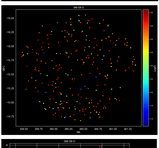
0040-08-0

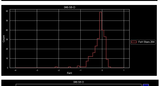
main_sequence: 1013
turnoff: 35
subgiants: 0
red_giants: 63
rr_lyrae: 0
red_giants - rr_lyrae: 45

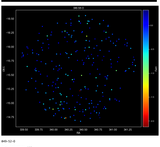
Dec: 0
Mag: 19
Mag: 18
Mag: 17
Mag: 0







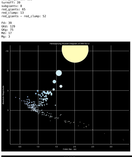


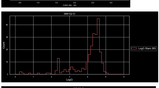


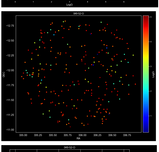
0070-03-0

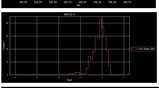
main_sequence: 1013
turnoff: 35
subgiants: 0
red_giants: 63
rr_lyrae: 0
red_giants - rr_lyrae: 52

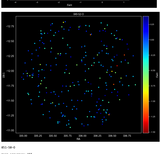
Dec: 0
Mag: 19
Mag: 18
Mag: 17
Mag: 0







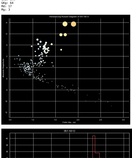


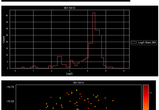


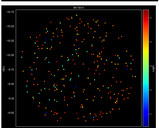
0072-58-0

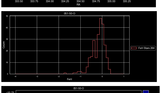
main_sequence: 1015
turnoff: 35
subgiants: 0
red_giants: 61
rr_lyrae: 0
red_giants - rr_lyrae: 47

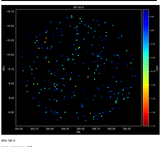
Dec: 0
Mag: 19
Mag: 18
Mag: 17
Mag: 0

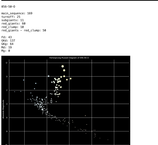








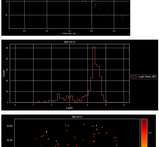


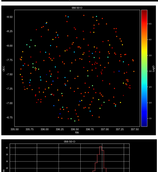


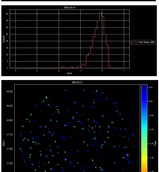
ECO-SB-0

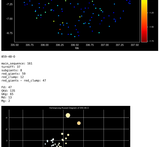
main_separation: 100
halo#: 14
halo#: 31
red_galaxies: 38
red_galaxies: 38
red_galaxies = red_clump: 58

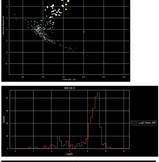
Gal: 31
Mag: 22
Mag: 22
Mag: 22
Mag: 0







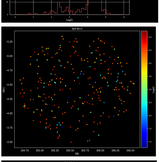


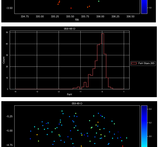


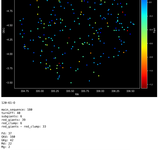
ECO-SB-0

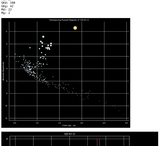
main_separation: 101
halo#: 17
halo#: 31
red_galaxies: 34
red_galaxies: 34
red_galaxies = red_clump: 47

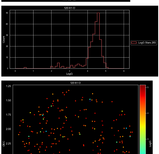
Gal: 31
Mag: 22
Mag: 22
Mag: 22
Mag: 0







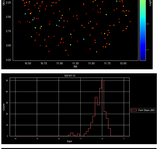


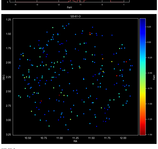


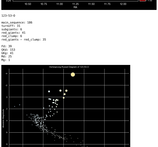
CCH-SB-0

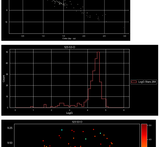
main_separation: 100
halo#: 14
halo#: 18
red_galaxies: 34
red_galaxies: 34
red_galaxies = red_clump: 33

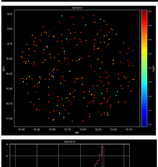
Gal: 31
Mag: 22.5
Mag: 22
Mag: 22
Mag: 0







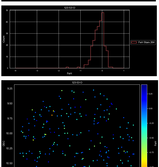




CCH-SB-0

main_separation: 100
halo#: 18
halo#: 31
red_galaxies: 32
red_galaxies: 32
red_galaxies = red_clump: 35

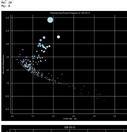
Gal: 31
Mag: 22
Mag: 22
Mag: 22
Mag: 0

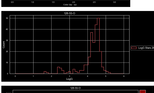


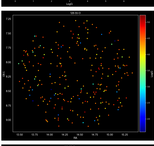
CCH-SB-0

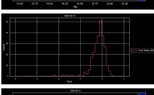
main_separation: 104
halo#: 18
halo#: 31
red_galaxies: 38
red_galaxies: 38
red_galaxies = red_clump: 28

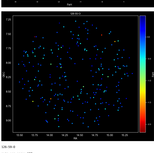
CG: 0?
Dec: 0?
Mag: 0?
Ra: 0?
Nr: 0?







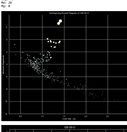


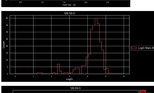


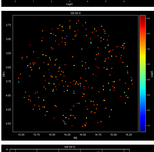
CG:CG-0

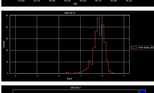
main_sequence: 187
turnoff: 29
subgiants: 0
red_giants: 0
red_clump: 0
red_giants - red_clump: 29

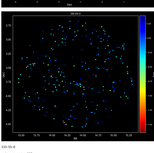
Dec: 0?
Mag: 0?
Ra: 0?
Nr: 0?







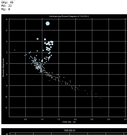


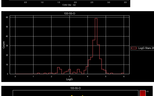


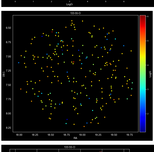
CG:CG-0

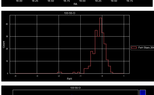
main_sequence: 168
turnoff: 18
subgiants: 0
red_giants: 0
red_clump: 0
red_giants - red_clump: 58

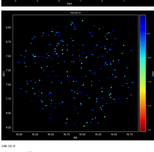
Dec: 0?
Mag: 0?
Ra: 0?
Nr: 0?







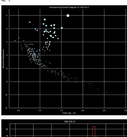


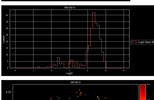


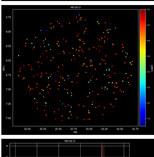
CG:CG-0

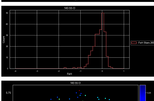
main_sequence: 169
turnoff: 19
subgiants: 0
red_giants: 0
red_clump: 0
red_giants - red_clump: 61

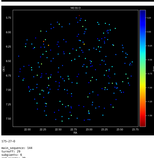
Dec: 0?
Mag: 0?
Ra: 0?
Nr: 0?







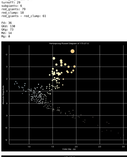


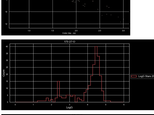


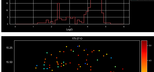
CG:CG-0

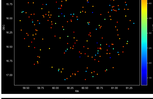
main_sequence: 154
turnoff: 29
subgiants: 0
red_giants: 0
red_clump: 0
red_giants - red_clump: 61

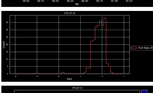
Dec: 0?
Mag: 0?
Ra: 0?
Nr: 0?

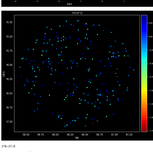






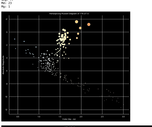


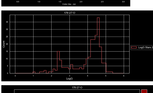


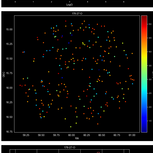


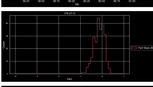
179-07-0

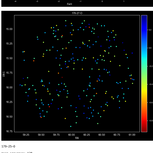
```
main_sequence: 145
halo0MT: 0
subgroupID: 0
rnd_gamma: 36
rnd_phi: 0
rnd_gamma0: rnd_fline: 42

fin: 0
IDx: 29
IDy: 0
IDz: 0
Ms: 1
```





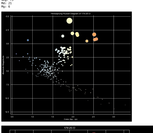


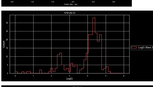


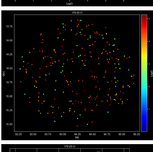


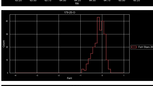
179-20-0

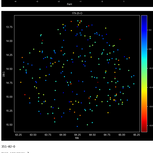
```
main_sequence: 128
halo0MT: 0
subgroupID: 0
rnd_gamma: 42
rnd_phi: 0
rnd_gamma0: rnd_fline: 64

fin: 0
IDx: 29
IDy: 0
IDz: 0
Ms: 0
```





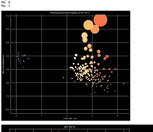


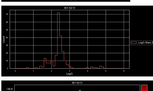


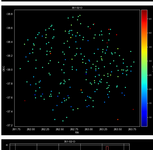


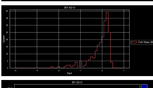
201-02-0

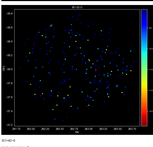
```
main_sequence: 7
halo0MT: 0
subgroupID: 0
rnd_gamma: 43
rnd_phi: 0
rnd_gamma0: rnd_fline: 156

fin: 0
IDx: 0
IDy: 0
IDz: 0
Ms: 0
```





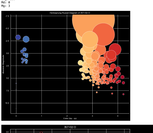


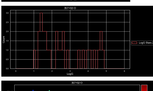


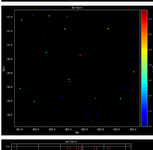


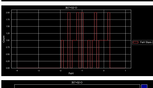
201-08-0

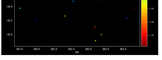
```
main_sequence: 5
halo0MT: 0
subgroupID: 0
rnd_gamma: 1
rnd_phi: 0
rnd_gamma0: rnd_fline: 254

fin: 0
IDx: 0
IDy: 0
IDz: 0
Ms: 0
```











TestsAndCadets_20ac 8172

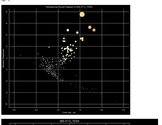
TestsAndCadets_20ac 8172

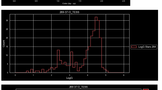
Mr.D.Jason Ellis, Kane Sakata University of Hawaii, and R. Beaton (Princeton/SCSC)
Abstract: Data from the Sloan Digital Sky Survey (SDSS) and the Hubble Space Telescope (HST) now span one dec
ade of the Southern Ecliptic Pole, NASA's Transiting Exoplanet Survey Satellite (TESS) will have continuous coverage
of the Southern Ecliptic Pole, and the Vera C. Rubin Observatory (VRO) will provide deep multi-band photometry. Data
taken combined with the precise TESS photometric light curves, these data enable investigations of open questions
about stellarmass, stellar metallicity, and accurate lumen calibration.

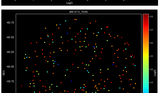
```
#################################################################################
#################################################################################

main_sequence: 27987
subsystem: 0
subsystems: 222
mag_cutoff: 18
#
Fields, 7 ID:0,'TESS-19.7010', 'TESS-48.7010', 'TESS-49.7010', 'TESS-50.7010',
  'TESS-51.7010', 'TESS-52.7010', 'TESS-53.7010', '20A-201.7010',
  '20A-202.7010', '20A-203.7010', '20A-204.7010', '20A-205.7010',
  '20A-206.7010', '20A-207.7010', '20A-208.7010', '20A-209.7010',
  '20A-210.7010', '20A-211.7010', '20A-212.7010', '20A-213.7010',
  '20A-214.7010', '20A-215.7010', '20A-216.7010', '20A-217.7010',
  '20A-218.7010', '20A-219.7010', '20A-220.7010', '20A-221.7010',
  '20A-222.7010', '20A-223.7010', '20A-224.7010', '20A-225.7010',
  '20A-226.7010', '20A-227.7010', '20A-228.7010', '20A-229.7010',
  '20A-230.7010', '20A-231.7010', '20A-232.7010', '20A-233.7010',
  '20A-234.7010', '20A-235.7010', '20A-236.7010', '20A-237.7010',
#################################################################################
#################################################################################
```

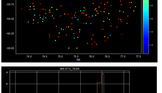
20A-237.0_TESS

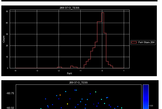
```
main_sequence: 128
subsystem: 0
subsystems: 0
mag_cutoff: 18
#
mag_cutoff: -mag_cutoff: 74
#
Dec: 0
Ddec: 0.5
Ddec: 0.5
Ra: 0
Dra: 0.5
Dra: 0.5
Mag: 0
Mag: 0.5
```

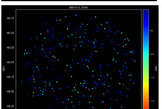


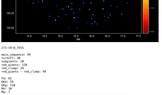


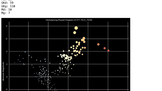


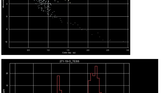


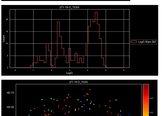


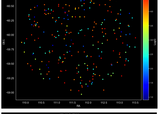


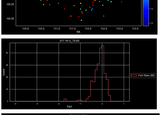


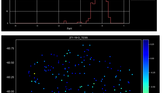


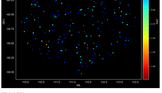


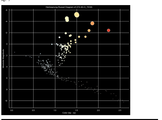


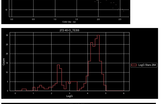


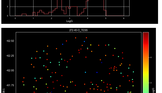


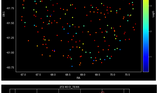


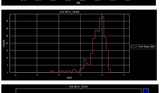


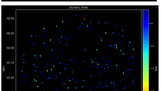


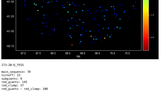


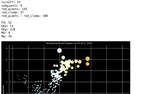


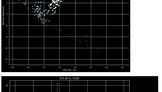


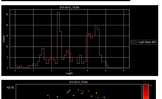


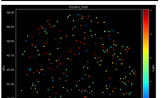


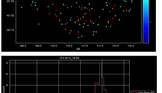


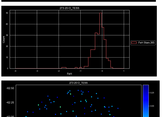


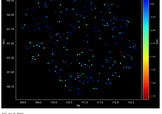


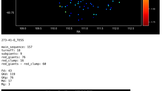












20A-237.0_TESS

```
main_sequence: 55
subsystem: 0
subsystems: 0
mag_cutoff: 18
#
mag_cutoff: -mag_cutoff: 95
#
Dec: 0
Ddec: 0.5
Ddec: 0.5
Ra: 0
Dra: 0.5
Dra: 0.5
Mag: 0
Mag: 0.5
```


20A-237.0_TESS

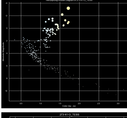
```
main_sequence: 111
subsystem: 0
subsystems: 0
mag_cutoff: 18
#
mag_cutoff: -mag_cutoff: 71
#
Dec: 0
Ddec: 0.5
Ddec: 0.5
Ra: 0
Dra: 0.5
Dra: 0.5
Mag: 0
Mag: 0.5
```

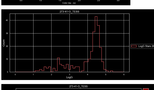

20A-237.0_TESS

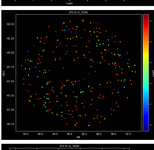
```
main_sequence: 78
subsystem: 0
subsystems: 0
mag_cutoff: 18
#
mag_cutoff: -mag_cutoff: 100
#
Dec: 0
Ddec: 0.5
Ddec: 0.5
Ra: 0
Dra: 0.5
Dra: 0.5
```

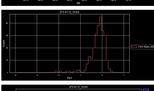

20A-237.0_TESS

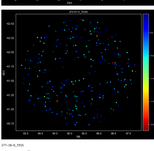
```
main_sequence: 227
subsystem: 0
subsystems: 0
mag_cutoff: 18
#
mag_cutoff: -mag_cutoff: 68
#
Dec: 0
Ddec: 0.5
Ddec: 0.5
Ra: 0
Dra: 0.5
Dra: 0.5
```





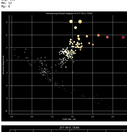


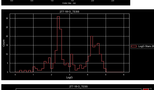


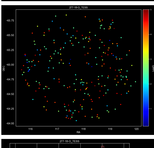


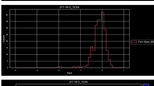
277-10-A_TOI1

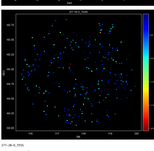
```
main_sequence= 75
binarity= 0
subgiants= 0
red_giants= 258
other= 0
red_giants - bad_flag= 111

Dec: 32
Mag: 12
Mag: 20
Mag: 12
Mg: 0
```





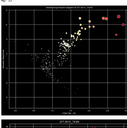


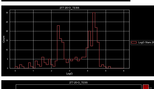


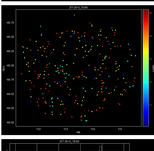


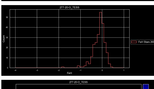
277-08-A_TOI1

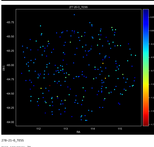
```
main_sequence= 76
binarity= 0
subgiants= 0
red_giants= 324
other= 0
red_giants - bad_flag= 188

Dec: 40
Mag: 12
Mag: 128
Mag: 12
Mg: 0
```





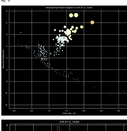


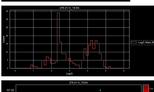


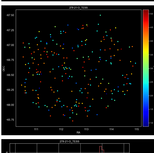


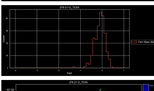
278-10-A_TOI1

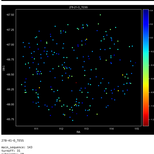
```
main_sequence= 76
binarity= 0
subgiants= 0
red_giants= 258
other= 0
red_giants - bad_flag= 182

Dec: 32
Mag: 12
Mag: 20
Mag: 12
Mg: 0
```





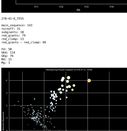


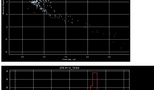


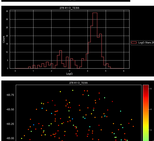


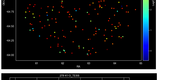
278-05-A_TOI1

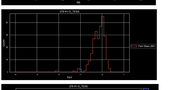
```
main_sequence= 142
binarity= 0
subgiants= 0
red_giants= 40
other= 0
red_giants - bad_flag= 88

Dec: 08
Mag: 12
Mag: 20
Mag: 12
Mg: 0
```

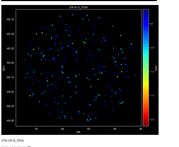








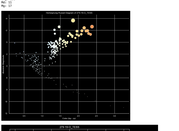


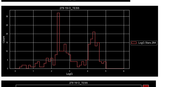


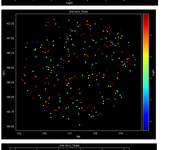
270-10-0_TOS:

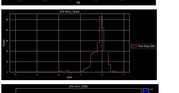
```
main_parameters: 70
hydrofrit: 0
subgiants: 0
cmd_gamma: 0.50
cmd_slope: 30
cmd_points: 140
cmd_gamma: -cmd_slope: 124
```

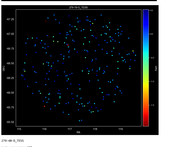
```
Dis: 40
Age: 10
Met: 0.5
Mg: 0.5
```







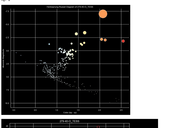


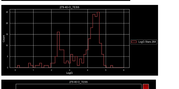


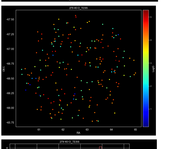
270-10-0_TOS:

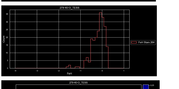
```
main_parameters: 185
hydrofrit: 0
subgiants: 0
cmd_gamma: 0.50
cmd_slope: 30
cmd_points: 140
cmd_gamma: -cmd_slope: 185
```

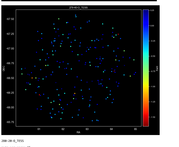
```
Dis: 40
Age: 10
Met: 0.5
Mg: 0.5
```







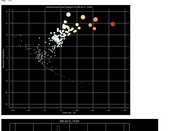


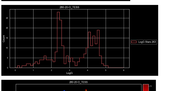


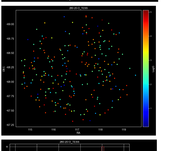
200-10-0_TOS:

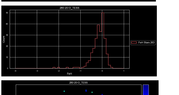
```
main_parameters: 65
hydrofrit: 0
subgiants: 0
cmd_gamma: 0.50
cmd_slope: 30
cmd_points: -cmd_slope: 185
```

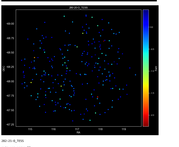
```
Dis: 40
Age: 10
Met: 0.5
Mg: 0.5
```







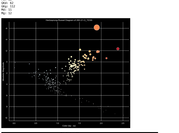


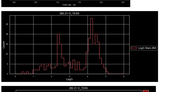


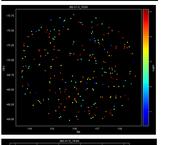
200-10-0_TOS:

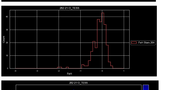
```
main_parameters: 90
hydrofrit: 0
subgiants: 0
cmd_gamma: 0.50
cmd_slope: 30
cmd_points: 132
cmd_gamma: -cmd_slope: 90
```

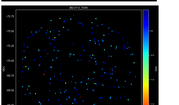
```
Dis: 40
Age: 10
Met: 0.5
Mg: 0.5
```





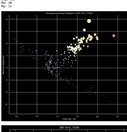


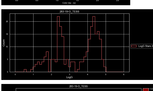


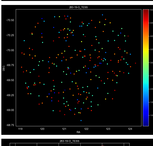


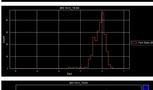
2m-16-0_5031

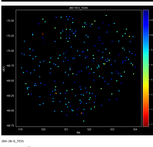
```
main_separator: 85
subgamma: 0
subgamma: 0
tot_points: 137
tot_clumps: 7
rel_points = tot_clump: 188

Gx: 38
Gy: 38
Mag: 219
Mx: 0
My: 0
```





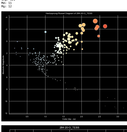


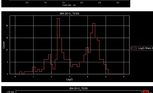


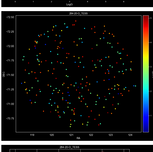


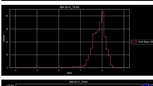
2m-16-0_5031

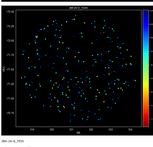
```
main_separator: 82
subgamma: 0
subgamma: 0
tot_points: 84
tot_clumps: 4
rel_points = tot_clump: 138

Gx: 38
Gy: 38
Mag: 21
Mx: 0
My: 0
```





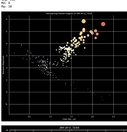


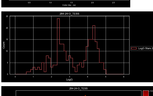


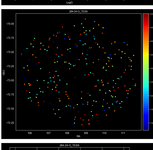


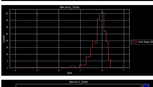
2m-16-0_5031

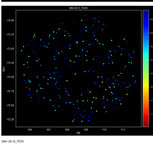
```
main_separator: 68
subgamma: 0
subgamma: 0
tot_points: 84
tot_clumps: 10
rel_points = tot_clump: 117

Gx: 32
Gy: 32
Mag: 49
Mx: 0
My: 0
```





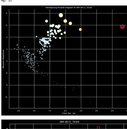


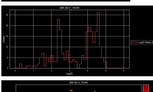


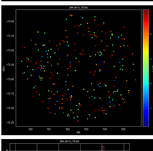


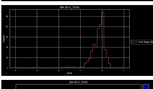
2m-16-0_5031

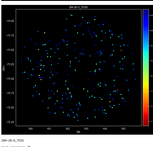
```
main_separator: 85
subgamma: 0
subgamma: 11
tot_points: 97
tot_clumps: 7
rel_points = tot_clump: 68

Gx: 38
Gy: 38
Mag: 59
Mx: 0
My: 0
```





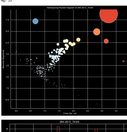


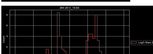


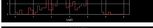


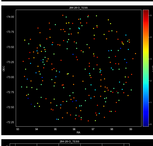
2m-16-0_5031

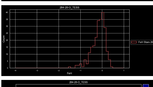
```
main_separator: 75
subgamma: 0
subgamma: 0
tot_points: 98
tot_clumps: 8
rel_points = tot_clump: 112

Gx: 38
Gy: 38
Mag: 49
Mx: 0
My: 0
```

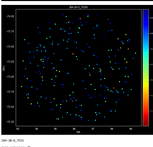






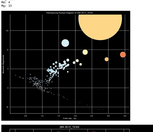


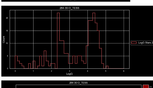


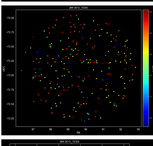


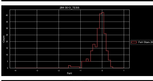
2d+-3d-0_T001

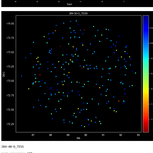
```
main_separation: 70
kuiper0: 17
kuiper1: 17
sub_parent: 0.0
sub_parent: 0.0
ind_clump: 3d
ind_gamma = ind_flag: 111

Dx: 0
Dy: 0
Dz: 0
Mtot: 100
Mp: 0
Mc: 0
```





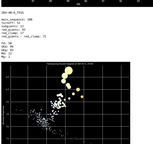


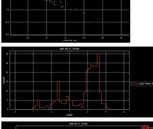


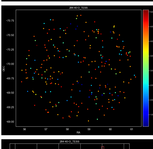


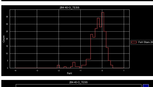
2d+-3d-0_T002

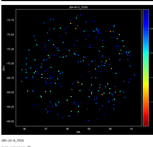
```
main_separation: 100
kuiper0: 17
kuiper1: 17
sub_parent: 0.0
sub_parent: 0.0
ind_clump: 3d
ind_gamma = ind_flag: 75

Dx: 0
Dy: 0
Dz: 0
Mtot: 100
Mp: 0
Mc: 0
```





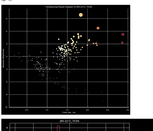


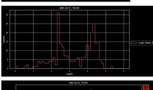


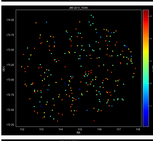


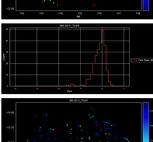
2d+-2d-0_T001

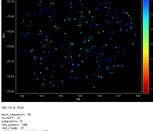
```
main_separation: 70
kuiper0: 17
sub_parent: 0.0
sub_parent: 0.0
ind_clump: 3d
ind_gamma = ind_flag: 111

Dx: 0
Dy: 0
Dz: 0
Mtot: 10
Mp: 0
Mc: 0
```





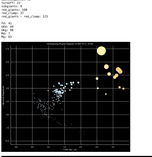


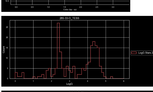


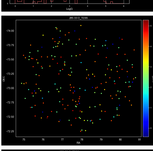


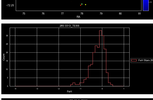
2d+-2d-0_T002

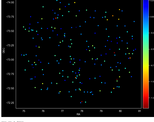
```
main_separation: 70
kuiper0: 17
sub_parent: 0.0
sub_parent: 0.0
ind_clump: 3d
ind_gamma = ind_flag: 123

Dx: 0
Dy: 0
Dz: 0
Mtot: 10
Mp: 0
Mc: 0
```





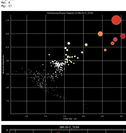


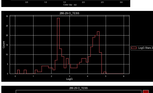


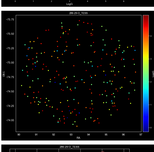


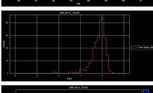
206-20-8_5V10

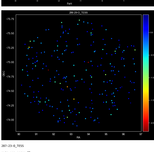
```
main_sequence: 75
turnoff: 15
subgiants: 2
red_giants: 18
red_clump: 38
red_giants - red_clump: 183

Dec: 8
Ebv: 0.4
Mag: 19
Mu: 0
Mv: 0
```





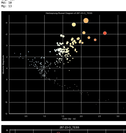


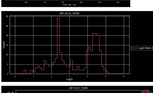


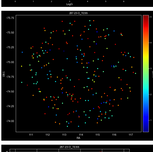


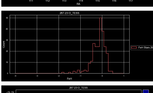
207-20-8_5V10

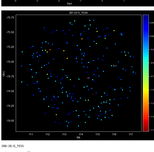
```
main_sequence: 85
turnoff: 14
subgiants: 2
red_giants: 18
red_clump: 38
red_giants - red_clump: 183

Dec: 8
Ebv: 0.4
Mag: 19
Mu: 0
Mv: 0
```





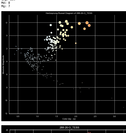


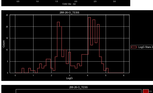


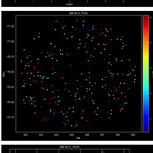


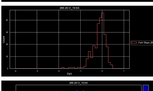
208-20-8_5V10

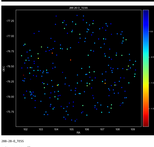
```
main_sequence: 75
turnoff: 15
subgiants: 18
red_giants: 118
red_clump: 38
red_giants - red_clump: 90

Dec: 32
Ebv: 0.4
Mag: 19
Mu: 0
Mv: 0
```





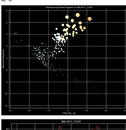


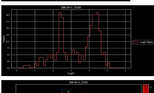


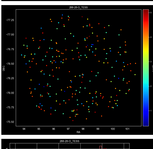


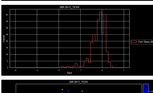
209-20-8_5V10

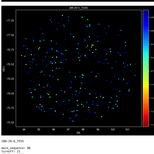
```
main_sequence: 85
turnoff: 15
subgiants: 18
red_giants: 118
red_clump: 38
red_giants - red_clump: 90

Dec: 32
Ebv: 0.4
Mag: 19
Mu: 0
Mv: 0
```





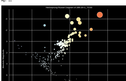


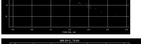


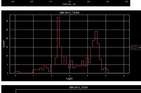


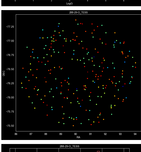
210-20-8_5V10

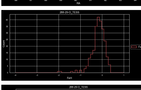
```
main_sequence: 95
turnoff: 15
subgiants: 18
red_giants: 118
red_clump: 38
red_giants - red_clump: 185

Dec: 32
Ebv: 0.4
Mag: 19
Mu: 0
Mv: 0
```

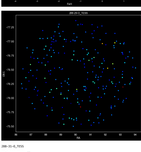






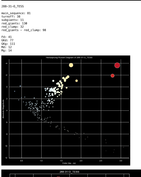


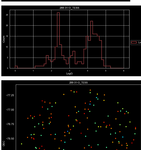


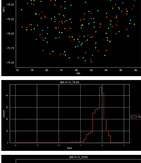


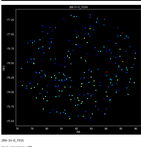
2B-15-A_TOS:

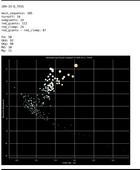
```
main_separator: 85
subgapsize: 0
subgapdir: 32
rot_angle: 0.00
rot_center: 0
rot_flag: 0
rot_points = rot_flag: 98

Dx: 0
Dy: 0
Dz: 23
Rx: 0
Ry: 0
Rz: 0
```





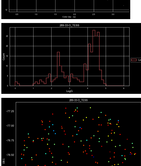


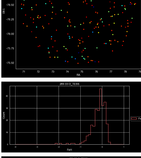


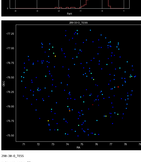


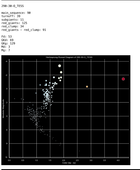
2B-15-A_TOS:

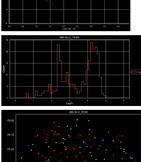
```
main_separator: 85
subgapsize: 0
subgapdir: 32
rot_angle: 0.00
rot_center: 0
rot_flag: 0
rot_points = rot_flag: 87

Dx: 0
Dy: 0
Dz: 23
Rx: 0
Ry: 0
Rz: 0
```





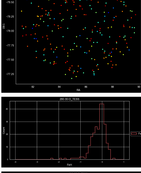


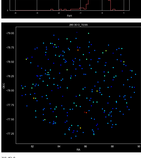


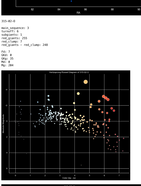


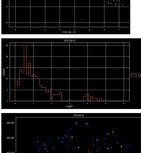
2B-16-A_TOS:

```
main_separator: 58
subgapsize: 0
subgapdir: 32
rot_angle: 0.00
rot_center: 0
rot_flag: 0
rot_points = rot_flag: 91

Dx: 0
Dy: 0
Dz: 29
Rx: 0
Ry: 0
Rz: 0
```



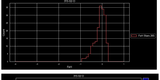


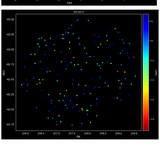


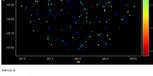


EO-02-0

```
main_separator: 3
hotspot: 1
subgapsize: 0
subgapdir: 20
rot_angle: 0.00
rot_points = rot_flag: 240

Dx: 0
Dy: 0
Dz: 0
Rx: 0
Ry: 0
Rz: 0
```

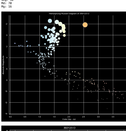

Light Curve DR1

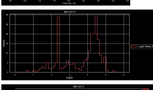


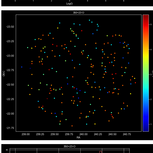


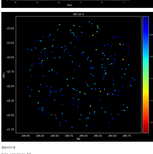
2024-07-7

```
main_separator: 100
turbulf: 0
subgravity: 0
cut_gravity: 125
cut_mass: 0
cut_gravity + cut_flux: 96

Cu: 0
Mu: 0
Mag: 0
Mu: 0
Nu: 0
```



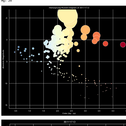


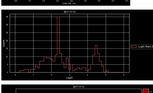


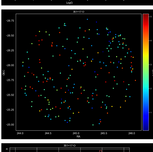


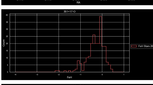
2024-07-8

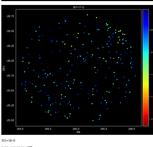
```
main_separator: 57
turbulf: 0
subgravity: 0
cut_gravity: 0
cut_gravity: 0
cut_gravity + cut_flux: 150

Cu: 0
Mu: 0
Mag: 0
Mu: 0
Nu: 0
```





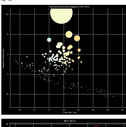


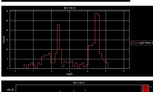


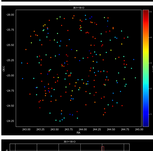


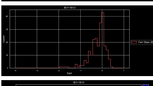
2024-08-4

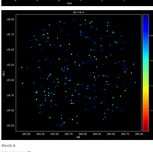
```
main_separator: 100
turbulf: 0
subgravity: 0
cut_gravity: 0
cut_gravity: 0
cut_gravity + cut_flux: 113

Cu: 0
Mu: 0
Mag: 0
Mu: 0
Nu: 0
```





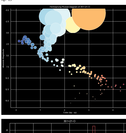


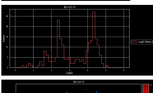


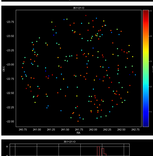


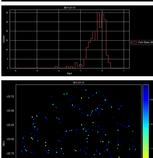
2024-09-9

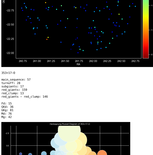
```
main_separator: 72
turbulf: 0
subgravity: 0
cut_gravity: 0
cut_gravity: 0
cut_gravity + cut_flux: 130

Cu: 0
Mu: 0
Mag: 0
Mu: 0
Nu: 0
```





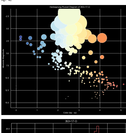


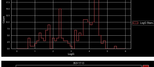


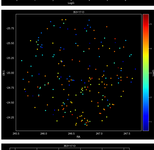


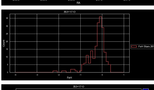
2024-09-9

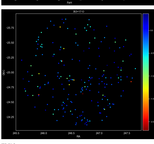
```
main_separator: 57
turbulf: 0
subgravity: 0
cut_gravity: 0
cut_gravity: 0
cut_gravity + cut_flux: 146

Cu: 0
Mu: 0
Mag: 0
Mu: 0
Nu: 0
```





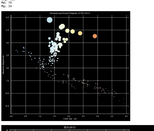


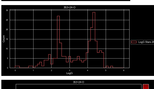


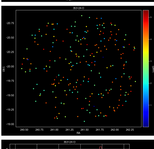


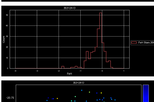
2014-08-8

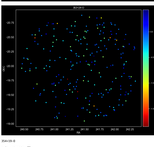
```
main_sequence: 107
turnoff: 19
subgiants: 8
red_giants: 142
rr_lyrae: 0
red_giants - rr_lyrae: 141

Ra: 32
Dec: 0
Mag: 23
Ra: 16
Mg: 18
```





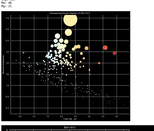


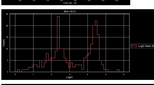


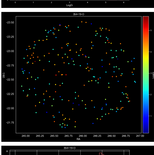


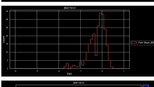
2014-08-9

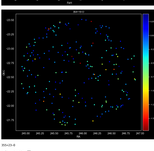
```
main_sequence: 76
turnoff: 24
subgiants: 8
red_giants: 168
rr_lyrae: 0
red_giants - rr_lyrae: 136

Ra: 32
Dec: 0
Mag: 23
Ra: 16
Mg: 18
```





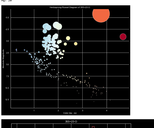


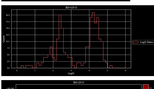


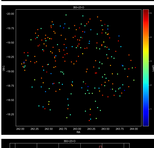


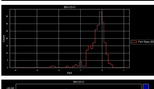
2014-08-10

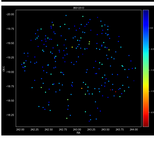
```
main_sequence: 77
turnoff: 19
subgiants: 8
red_giants: 142
rr_lyrae: 0
red_giants - rr_lyrae: 134

Ra: 32
Dec: 0
Mag: 23
Ra: 16
Mg: 18
```



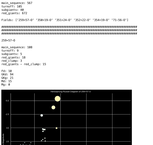


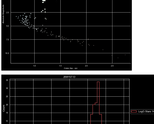


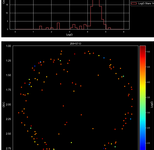


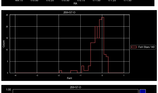


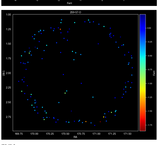
```
sersheng2_2ln 1384

==========================================================
==========================================================

main_sequence: 162
turnoff: 49
subgiants: 8
red_giants: 81

Fields: ['2014-07-8' '2014-07-9' '2014-07-10' '2014-07-11' '2014-07-12' '2014-07-13']

==========================================================
==========================================================

2014-07-8

main_sequence: 188
turnoff: 7
subgiants: 1
red_giants: 0
rr_lyrae: 0
red_giants - rr_lyrae: 0

Ra: 32
Dec: 0
Mag: 23
Ra: 16
Mg: 18
```







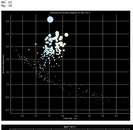


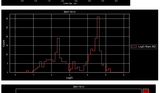


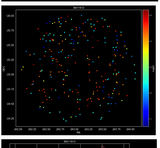
2014-09-8

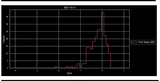
main_sequence: 98
turboFit: 0
subgiants: 4
red_giants: 24
rot_period: 24
rot_gamma: rot_flag: 119

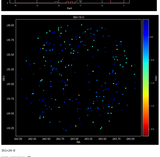
Kp: 6
Vmag: 8
Mag: 29
Mp: 10
Mm: 0







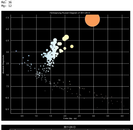


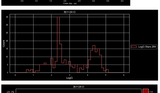


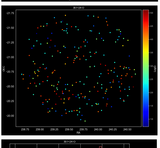
2014-09-9

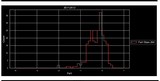
main_sequence: 78
turboFit: 0
subgiants: 12
red_giants: 24
rot_period: 24
rot_gamma: rot_flag: 125

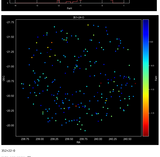
Kp: 6
Vmag: 8
Mag: 29
Mp: 10
Mm: 0







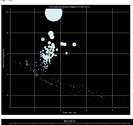


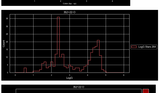


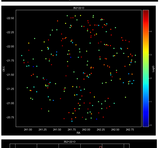
2014-09-10

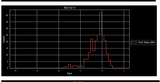
main_sequence: 77
turboFit: 0
subgiants: 13
red_giants: 24
rot_period: 24
rot_gamma: rot_flag: 121

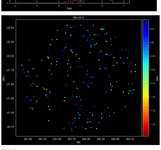
Kp: 6
Vmag: 8
Mag: 27
Mp: 10
Mm: 0







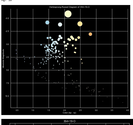


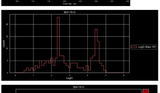


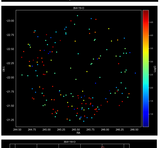
2014-09-8

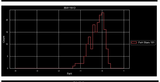
main_sequence: 91
turboFit: 0
subgiants: 11
red_giants: 24
rot_period: 24
rot_gamma: rot_flag: 111

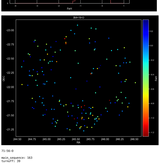
Kp: 6
Vmag: 8
Mag: 29
Mp: 10
Mm: 0







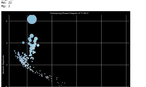


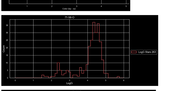


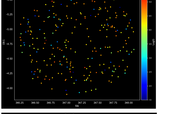
main_sequence: 163
turboFit: 0

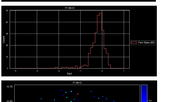
```
main_sequence: 1000
turnoff: 1000
subgiants: 30
red_giants: 1000

Fields: ['LMMAGRP1' 'LMMAGRP2-A' 'LMMAGRP2-B' 'NGC6819' 'NGC188-A'
'NGC188-B' 'NGC6791' 'NGC2158' 'NGC2420' 'NGC2682' 'NGC6819-A'
'NGC6819-B' 'NGC6819-C' 'NGC6819-D' 'NGC6819-E'
'NGC6819-F' 'NGC6819-G' 'NGC6819-H' 'NGC6819-I' 'NGC6819-J'
'TRACEGRP1']
```

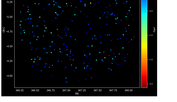
```
main_sequence: 1000
turnoff: 1000
subgiants: 30
red_giants: 1000
red_clump: 77

Dec: 30
Ebv: 0.03
Age: 3.0
Mass: 1.0
Mv: 0.0
```

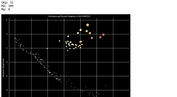


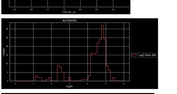


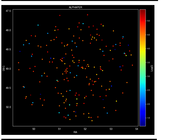


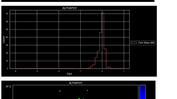


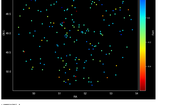


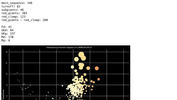


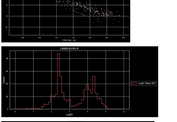


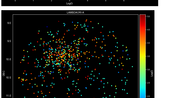


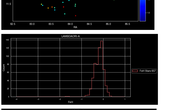


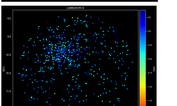


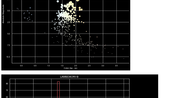


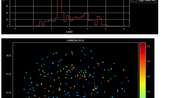


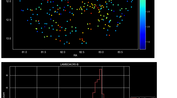


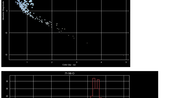


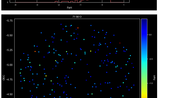


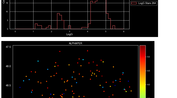


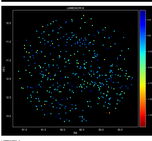






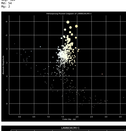


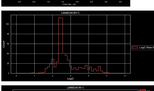


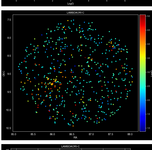


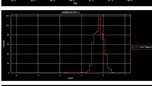
LUMBDAHO-C

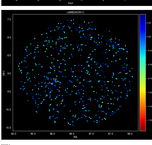
```
main_sequence= 90
turnoff= 67
subgiants= 32
red_giants= 127
red_giants = red_clump= 154

Fe: 28
Mg: 28
Ca: 28
Na: 28
Ni: 0
```





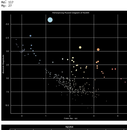


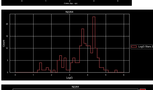


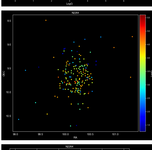


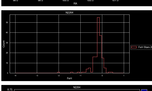
BLOAT

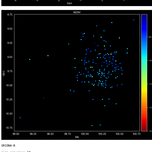
```
main_sequence= 55
turnoff= 0
subgiants= 0
red_giants= 218
red_giants = red_clump= 139

Fe: 28
Mg: 28
Ca: 28
Na: 28
Ni: 28
```





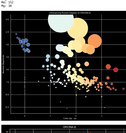


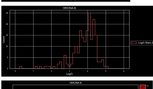


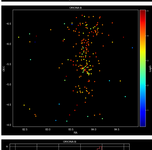


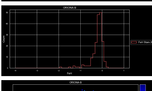
DRIMA-B

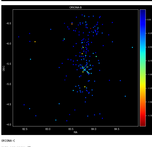
```
main_sequence= 50
turnoff= 67
subgiants= 0
red_giants= 127
red_giants= 154
red_giants = red_clump= 121

Fe: 28
Mg: 28
Ca: 28
Na: 28
Ni: 28
```





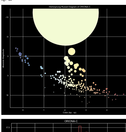


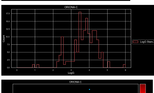


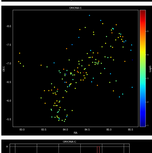


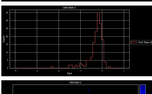
DRIMA-C

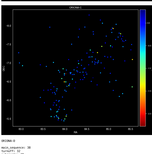
```
main_sequence= 90
turnoff= 67
subgiants= 0
red_giants= 127
red_giants= 167
red_giants = red_clump= 154

Fe: 28
Mg: 28
Ca: 28
Na: 28
Ni: 28
```





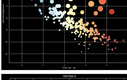


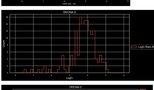


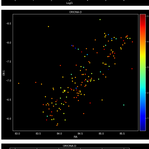


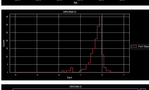
DRIMA-D

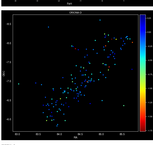
```
main_sequence= 30
turnoff= 0
subgiants= 0
red_giants= 0
red_clump= 0
red_giants = red_clump= 148

Fe: 28
Mg: 28
Ca: 28
Na: 28
Ni: 28
```







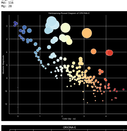


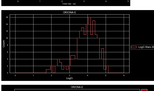


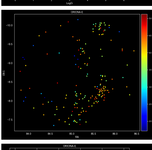
DR3B6-2

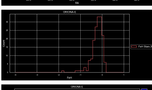
main_separator: 57
hotspot: 0
subgalactic: 30
fast_gain: 0.0
red_clump: 0
CSE_points = red_clump: 125

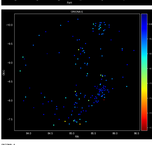
Dy: 20
dDy: 20
Mx: 20
dMx: 20
My: 18
dMy: 18







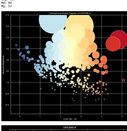


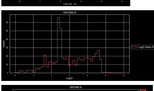


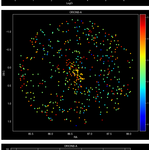
DR3B6-3

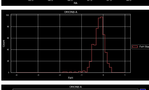
main_separator: 188
hotspot: 0
subgalactic: 30
fast_gain: 0.0
red_clump: 188
CSE_points = red_clump: 327

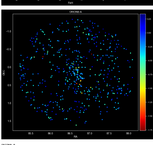
Dy: 20
dDy: 20
Mx: 20
dMx: 20
My: 20
dMy: 20







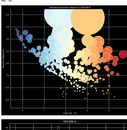


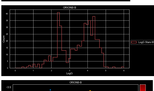


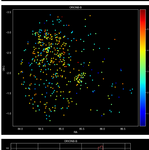
DR3B6-4

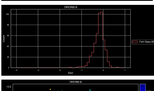
main_separator: 127
hotspot: 0
subgalactic: 30
fast_gain: 0.0
red_clump: 0
CSE_points = red_clump: 157

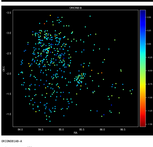
Dy: 20
dDy: 20
Mx: 20
dMx: 20
My: 20
dMy: 20







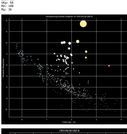


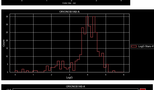


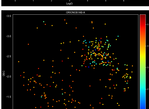
DR3B6DM-2

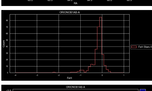
main_separator: 525
hotspot: 0
subgalactic: 0
red_clump: 348
fast_gain: 0.0
CSE_points = red_clump: 553

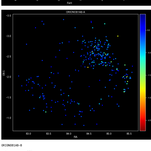
Dy: 20
dDy: 20
Mx: 20
dMx: 20
My: 20
dMy: 20





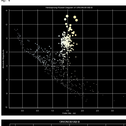


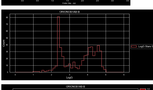


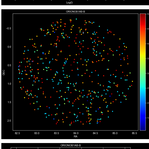


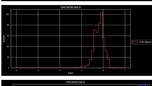
DFCMD0100-0

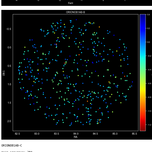
```
main_sequence: 164
hydrant: 71
subgenre: 36
red_planet: 208
cell_phone: 42
red_giants: red_clump: 189

Ok: 18
Omg: 53
Wtf: 23
Lol: 7
No: 9
```





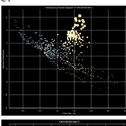


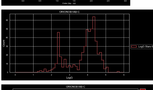


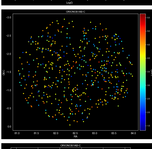


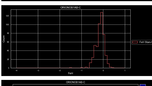
DFCMD0100-C

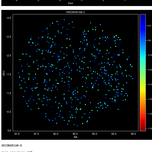
```
main_sequence: 384
hydrant: 71
subgenre: 36
red_planet: 208
cell_phone: 42
red_giants: red_clump: 173

Ok: 18
Omg: 53
Wtf: 23
Lol: 7
No: 9
```





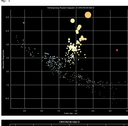


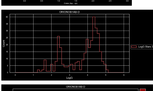


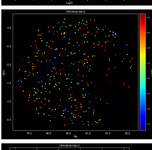


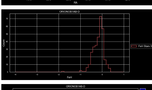
DFCMD0100-D

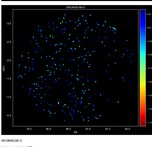
```
main_sequence: 140
hydrant: 71
subgenre: 36
red_planet: 208
cell_phone: 42
red_giants: red_clump: 138

Ok: 18
Omg: 53
Wtf: 23
Lol: 7
No: 9
```





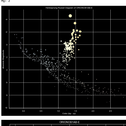


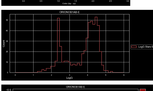


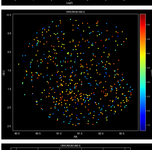


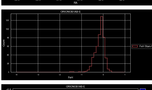
DFCMD0100-E

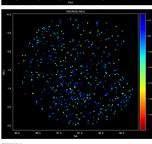
```
main_sequence: 280
hydrant: 71
subgenre: 36
red_planet: 208
cell_phone: 42
red_giants: red_clump: 213

Ok: 18
Omg: 53
Wtf: 23
Lol: 7
No: 9
```



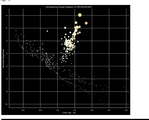


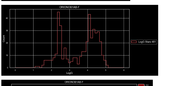


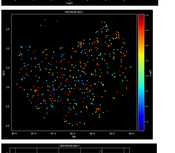


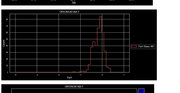


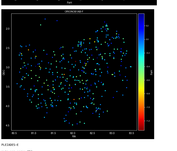
main_separator: 100
hydroPT: 18
subgalaxy: 35
cut_gamma: 28
cut_gamma = cut_clump: 186
Xc: 0
Yc: 0
Vmax: 280
Rmax: 20
Rc: 0
Rs: 0

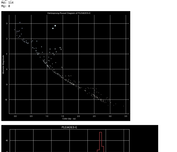






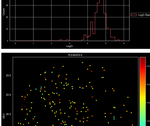


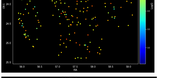


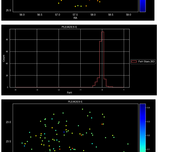


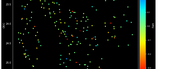
FLIGHT-C

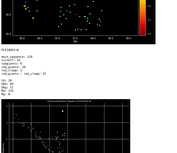
main_separator: 294
hydroPT: 18
subgalaxy: 35
cut_gamma: 40
cut_gamma = cut_clump: 39
Xc: 0
Yc: 0
Vmax: 0
Rmax: 0
Rc: 0
Rs: 0





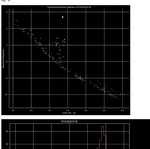


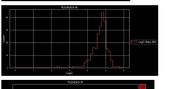


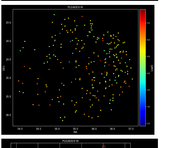


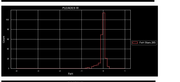
FLIGHT-D

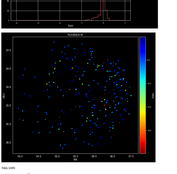
main_separator: 259
hydroPT: 18
subgalaxy: 35
cut_gamma: 26
cut_gamma = cut_clump: 21
Xc: 0
Yc: 0
Vmax: 0
Rmax: 0
Rc: 0





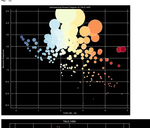


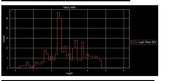


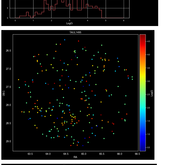


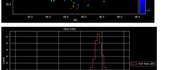
TRA-200

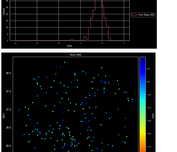
main_separator: 25
hydroPT: 18
subgalaxy: 40
cut_gamma: 48
cut_clump: 38
cut_gamma = cut_clump: 333
Xc: 0
Yc: 0
Vmax: 238
Rmax: 20
Rc: 0





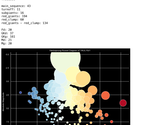


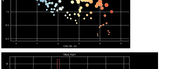


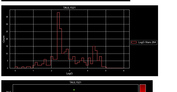


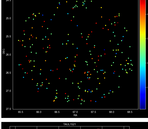
TRA-323

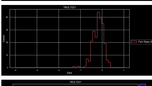
main_separator: 30
hydroPT: 18
subgalaxy: 35
cut_gamma: 28
cut_gamma = cut_clump: 134
Xc: 0
Yc: 0
Vmax: 20
Rmax: 20
Rc: 0

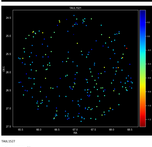






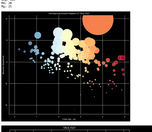


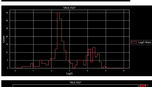


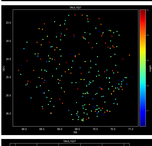


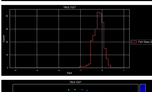
TNG-EDGE

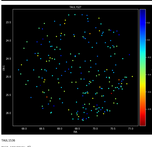
```
main_snapnumber: 99
snapshot: 99
subgroupnum: 0
fofgroupnum: 0
rvel_cutpoint: 707
rvel_cutpoints = rvel_cutpoint: 1250

Vx: 0
Vy: 0
Vz: 1.414
Mx: 0
My: 0
Mz: 0
```





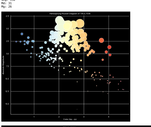


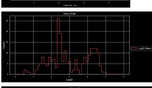


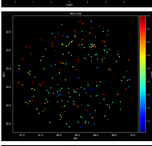


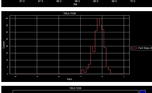
TNG-100

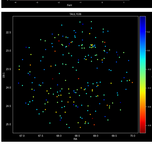
```
main_snapnumber: 47
snapshot: 47
subgroupnum: 12
fofgroupnum: 12
rvel_cutpoint: 80
rvel_cutpoints = rvel_cutpoint: 145

Vx: 0
Vy: 0
Vz: 1.414
Mx: 0
My: 0
Mz: 0
```











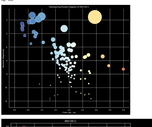
axisymf_y7kc 3504

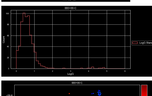
axisymf_y7kc 3504
This run is similar to extend the SIDAPOS Inner Bulge Survey (SIBS, Zasowski et al. 2014, 2015, Sanderson et al. 2015) to the Galactic Center. The observations are performed with the APOGEE spectrograph on the Sloan Telescope. The observations had giant black 1mm slits which a small range of rendering fields in the Galactic bulge field with which we be better the.
The observations are performed with the APOGEE spectrograph on the Sloan Telescope and bulge component in a cubed dataset in the central degree.

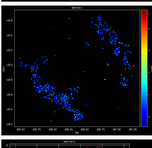
```
#################################################################
#################################################################

main_snapnumber: 29
snapshot: 29
subgroupnum: 0
fofgroupnum: 0

Fields: ['0000-000-C' 'MD2-000-C' 'Z04-000-C' 'Z04-000-C']

#################################################################
#################################################################
```

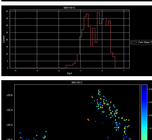
0000-000-C

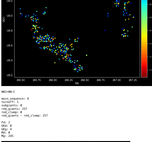
```
main_snapnumber: 5
snapshot: 5
subgroupnum: 0
fofgroupnum: 0
rvel_cutpoint: 715
rvel_cutpoints = rvel_cutpoint: 715

Vx: 0
Vy: 0
Vz: 1.414
Mx: 0
My: 0
Mz: 0
```





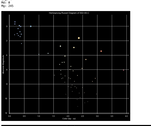


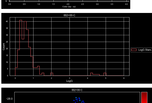


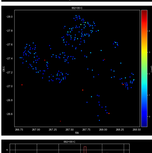


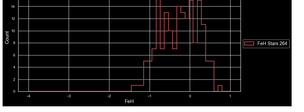
MD2-000-C

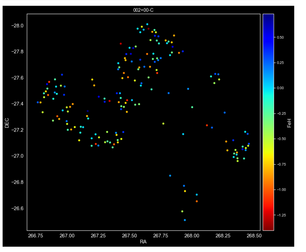
```
main_snapnumber: 12
snapshot: 12
subgroupnum: 0
fofgroupnum: 0
rvel_cutpoint: 257
rvel_cutpoints = rvel_cutpoint: 257

Vx: 0
Vy: 0
Vz: 1.414
Mx: 0
My: 0
Mz: 0
```





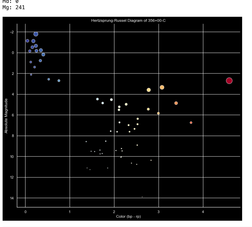


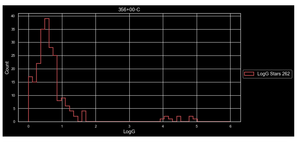


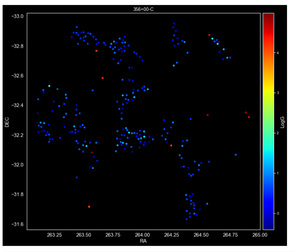


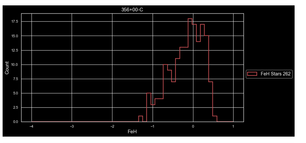
356+00-C

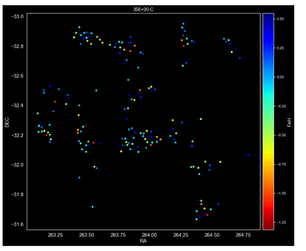
```
main_sequence: 6
turnoff: 3
subgiants: 8
red_giants: 253
red_clump: 8
red_giants - red_clump: 253

Fd: 4
GKd: 1
GKg: 3
Md: 0
Mg: 241
```





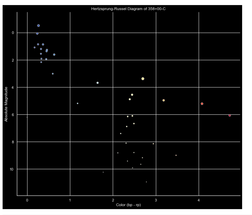


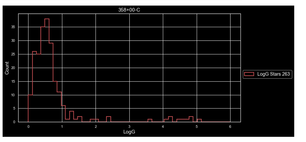


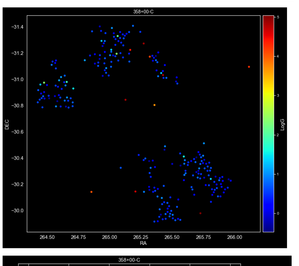


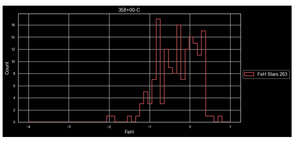
358+00-C

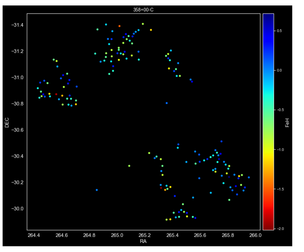
```
main_sequence: 7
turnoff: 2
subgiants: 1
red_giants: 253
red_clump: 1
red_giants - red_clump: 252

Fd: 2
GKd: 0
GKg: 7
Md: 0
Mg: 241
```











Done!

In [2]: