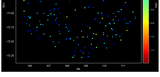
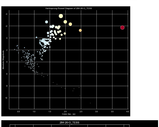
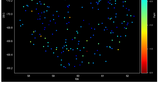
```
Python 3.7.8 (default, Jun 24 2020, 07:29:10)
[GCC 4.8.5 20150623 (Red Hat 4.8.5-44)] on linux2. For more information.

IPython 7.2.0 -- An enhanced Interactive Python.

In [1]: run/usr/lib64/python2.7/site-packages/Pyxplot\ My\ Fits\ IR\ 2.py', wdir='/home/josephbergin/'
/home/josephbergin/usr/anaconda3/bin/pyxplot
Loading Data...

Class 0: 10
Class 1: 1147
Class 2: 2160
Class 3: 5248
Class 4: 1148
Class 5: 1124
Class 6: 1148
Class 7: 1070
Class 8: 1148

Fit: 6212
Wdv: 32148
Wdv: 32148
Wdv: 32148
Wdv: 32148

#11: Stars 47387

Wdv: Stars 5730

Mg_g: Stars 5230
Mg_r: Stars 5230
Mg_i: Stars 5230
Mg_z: Stars 5230

SDW_g: Stars 20898
SDW_r: Stars 20898
SDW_i: Stars 20898
SDW_z: Stars 22853

BRg_mag: Stars 30618
BRr_mag: Stars 30618
BRg_i: Stars 30618
BRr_z: Stars 30618

Mg_g: Stars 7929
Mg_r: Stars 7929
Mg_i: Stars 7929
Mg_z: Stars 7929

Mg_g: Stars 22268
Mg_r: Stars 22268
Mg_i: Stars 22268
Mg_z: Stars 22268

Fulldv: 1366

Subset of Fulldv 1366

*****************************************************************

2013-10-8_5th:
2013-10-8_5th:
2013-10-8_5th:
```

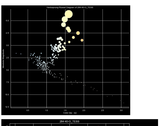


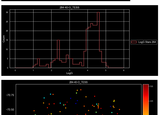
```
2004-08-18_TOSS

Programmdaten: ['Thistedterhaeuts_10m']

main_separator: 85
main_offset: 0
subgenerator: 12
subgenerator: 0
rnd_factor: 97
rnd_factor: 7-rnd_time: 98

Nr: 1
Tri: 10
Ver: 10
Max: 10
Min: 10
Mu: 10
```

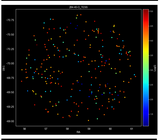

Thistedterhaeuts_10m
Ver
Tri
Mu
Max
Min
Nr
Mu
Ver
Tri
Max
Min
Nr
Mu
Ver
Tri
Max
Min
Nr
Mu
Ver
Tri

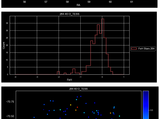


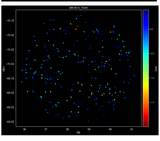
```
2021-08-18_TESS:
Programfamilies: ['TheSolarDynamo_Ulrike']

main_separation: 100
halfplot: 52
subplot: 10
red_quantile: 0.5
red_clump: 75
red_points = red_clump: 75

Bmr: 0
Ulr: 15
Qdip: 20
Qmon: 0
Mq: 0
Mq: 0
```



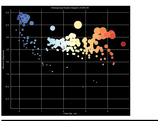


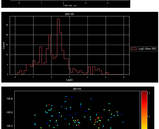


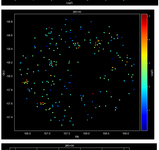


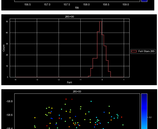


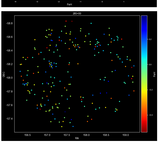

```
2021-08:
Programfamilies: ['Ulrike']

main_separation: 52
halfplot: 52
subplot: 10
red_quantile: 0.5
red_clump: 40
red_points = red_clump: 207

Bmr: 15
Ulr: 0
Qdip: 20
Qmon: 0
Mq: 0
Mq: 0
```



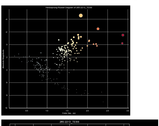


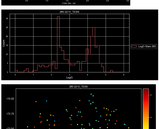


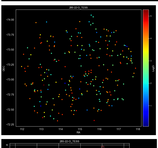


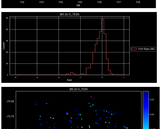


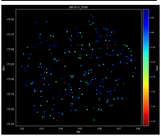

```
2001-10-8_TESS:
Programfamilies: ['TheSolarDynamo_Ulrike']

main_separation: 70
halfplot: 52
subplot: 10
red_quantile: 0.5
red_clump: 111
red_points = red_clump: 111

Bmr: 0
Ulr: 15
Qdip: 20
Qmon: 10
Mq: 0
Mq: 0
```



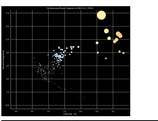


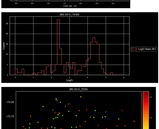


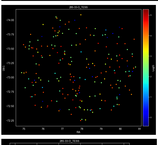


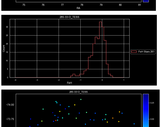


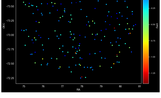

```
2001-10-8_TESS:
Programfamilies: ['TheSolarDynamo_Ulrike']

main_separation: 70
halfplot: 52
subplot: 10
red_quantile: 250
red_clump: 125
red_points = red_clump: 125

Bmr: 0
Ulr: 15
Qdip: 20
Qmon: 10
Mq: 0
Mq: 0
```









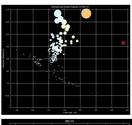


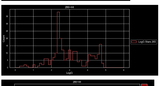
2006-mm

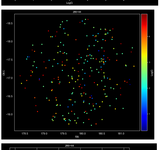
Programmes: ['apogee']

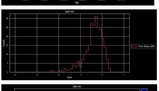
main_separator: 40
hotspot: 10
subgenre: 3
rot_period: 10
rot_clumps: 10
rot_clump_ratio: 140

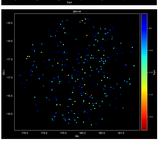
Nx: 1
Ny: 1
Ntot: 2
Nsig: 273
Nc: 0
Nu: 0









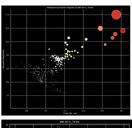


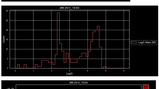
2006-10-8_TESS:

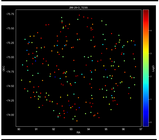
Programmes: ['TessVetterSubmit_10w']

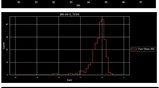
main_separator: 70
hotspot: 10
subgenre: 10
rot_period: 10
rot_clumps: 10
rot_clump_ratio: 143

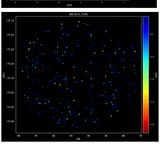
Nx: 4
Ny: 4
Ntot: 16
Nsig: 179
Nc: 0
Nu: 0









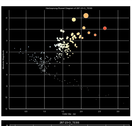


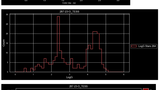
2007-10-8_TESS:

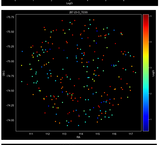
Programmes: ['TessVetterSubmit_10w']

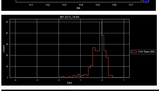
main_separator: 35
hotspot: 10
subgenre: 10
rot_period: 140
rot_clumps: 10
rot_clump_ratio: 143

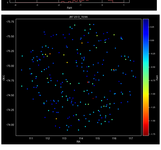
Nx: 4
Ny: 4
Ntot: 16
Nsig: 59
Nc: 0
Nu: 0









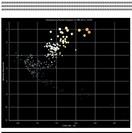


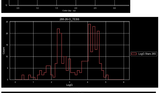
2008-10-8_TESS:

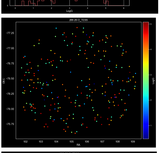
Programmes: ['TessVetterSubmit_10w']

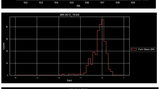
main_separator: 70
hotspot: 10
subgenre: 10
rot_period: 10
rot_clumps: 10
rot_clump_ratio: 90

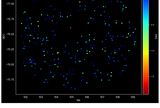
Nx: 4
Ny: 4
Ntot: 16
Nsig: 19
Nc: 0
Nu: 0



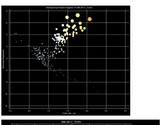


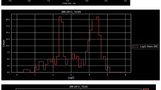


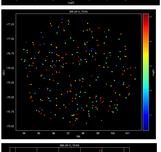


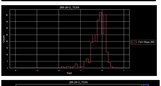


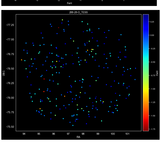
```
==================================================
==================================================

2006-10-0_5th

Programmer: ['Christofordavis_Ibe']

main_sequence= 65.
turnoff= 0
subgiants= 0
red_giants= 218
red_clump= 17
red_giants - red_clump= 99

Dec: 1
Ra: 0
Mag: 12
Mag: 13
Mag: 8
Mag: 9
==================================================
==================================================
```



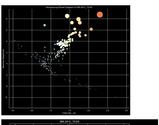


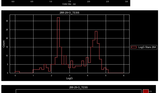


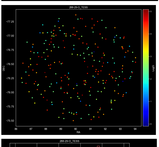


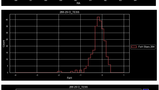


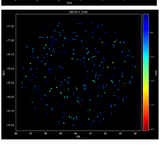

```
==================================================
==================================================

2006-10-0_5th

Programmer: ['Christofordavis_Ibe']

main_sequence= 96.
turnoff= 0
subgiants= 30
red_giants= 218
red_clump= 17
red_giants - red_clump= 101

Dec: 0
Ra: 0
Mag: 9
Mag: 10
Mag: 10
Mag: 10
==================================================
==================================================
```



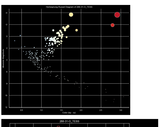


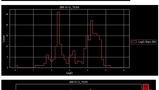


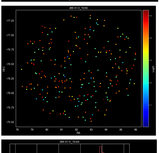


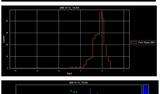


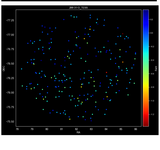

```
==================================================
==================================================

2006-10-0_5th

Programmer: ['Christofordavis_Ibe']

main_sequence= 96.
turnoff= 0
subgiants= 30
red_giants= 218
red_clump= 17
red_giants - red_clump= 98

Dec: 0
Ra: 0
Mag: 10
Mag: 13
Mag: 10
Mag: 10
==================================================
==================================================
```



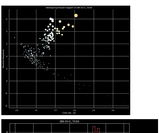


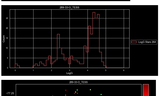


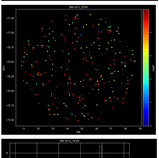


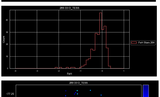


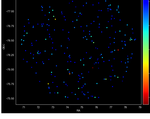

```
==================================================
==================================================

2006-10-0_5th

Programmer: ['Christofordavis_Ibe']

main_sequence= 185
turnoff= 24
subgiants= 0
red_giants= 243
red_clump= 17
red_giants - red_clump= 67

Dec: 0
Ra: 0
Mag: 10
Mag: 10
Mag: 10
==================================================
==================================================
```



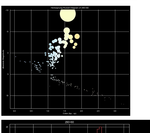


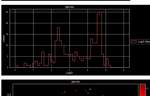


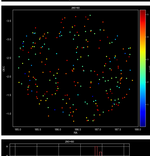


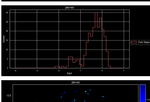


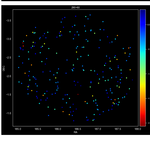
```
==========================================
2DR-HM

Programmer: ['sanqian']

main_separator: 50
sub_separator: 0
subparts: 0
num_points: 200
num_clusters: 20
random_state: [-1e8,1]e8]
Dc: 2
Dr: 30
dim: 2
dmax: 127
Mr: 0
Mc: 0
==========================================
```



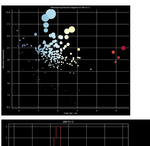


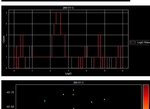


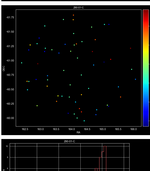


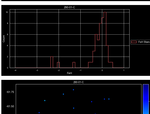


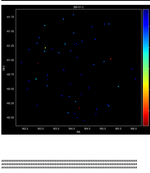

```
==========================================
2DR-HS-U

Programmer: ['Mahmoud_Ibra']

main_separator: 15
sub_separator: 0
subparts: 0
num_points: 200
num_clusters: 20
random_state: [-1e8,1]e8]
Dc: 2
Dr: 30
dim: 2
dmax: 100
Mr: 0
Mc: 15
==========================================
```



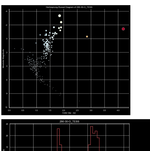


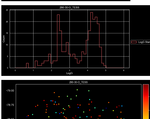


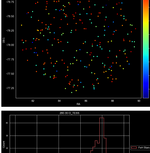


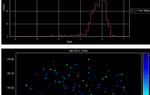


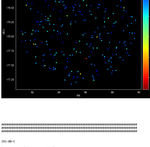

```
==========================================
2DR-SB-U_TOVS

Programmer: ['Thunderbanders_Ibra']

main_separator: 50
sub_separator: 0
subparts: 0
num_points: 1125
num_clusters: 20
random_state: [-1e8,1]e8]
Dc: 2
Dr: 30
dim: 2
dmax: 100
Mr: 0
Mc: 0
==========================================
```



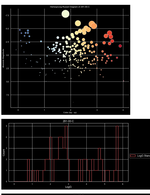


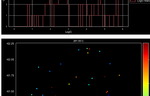


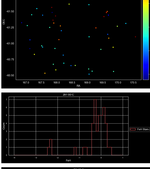


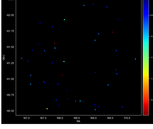



```
==========================================
2DC-HM-U

Programmer: ['Mahmoud_Ibra']

main_separator: 50
sub_separator: 0
subparts: 0
num_points: 1000
num_clusters: 5
random_state: [-1e8,1]e8]
Dc: 30
Dr: 30
dim: 2
dmax: 100
Mr: 0
Mc: 0
==========================================
```

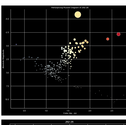


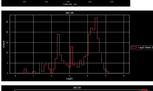


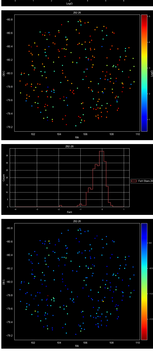


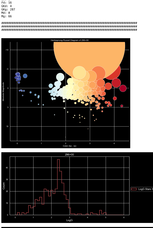


```
==================================================
2011-35

Programmer: ['Harry']

main_separator: 50
hungarian: 35
cut_angle: 0.0
cut_points: 314
cut_angle: 0.0
cut_points = cut_clump: 88

Ma: 2
Mb: 2
Mdb: 35
Mdc: 35
Mc: 2
Mp: 35
==================================================
```

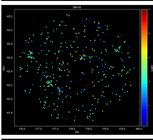


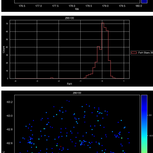


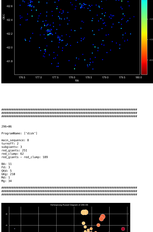


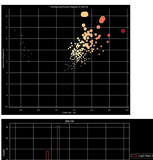


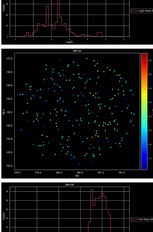

```
==================================================
2016-08

Programmer: ['Alice']

main_separator: 11
hungarian: 11
cut_angle: 0.0
cut_points: 314
cut_angle: 0.0
cut_points = cut_clump: 314

Ma: 6
Mb: 6
Mdb: 6
Mdc: 67
Mc: 6
Mp: 67
==================================================
```



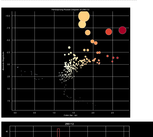


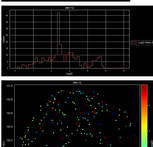


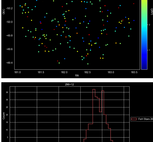




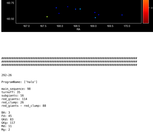

```
==================================================
2016-08

Programmer: ['Alice']

main_separator: 9
hungarian: 9
cut_angle: 0.0
cut_points: 314
cut_angle: 0.0
cut_points = cut_clump: 100

Ma: 4
Mb: 4
Mdb: 4
Mdc: 114
Mc: 4
Mp: 114
==================================================
```

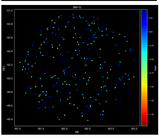







```
==================================================
2016-12

Programmer: ['Alice']

main_separator: 13
hungarian: 13
cut_angle: 0.0
cut_points: 213
cut_angle: 0.0
cut_points = cut_clump: 179

Ma: 8
Mb: 8
Mdb: 8
Mdc: 79
Mc: 8
Mp: 79
==================================================
```



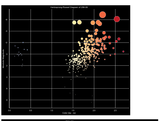
==========

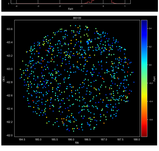
2M-00

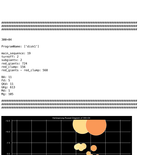
Programme: I'Ulu' 'Ulu2'

main_separation: 50
kappa: 0.5
subparts: 3
rot_period: 10
rot_clump: 10
rot_points = rot_clump: 170

Mm: 11
Mdm: 0
Mbd: 0
Mbg: 85
Mgg: 0
Mg: 15


Central Mass Fraction = 0.000
Central Mass = 0.000
Central Mass = 0.000
Central Mass





==========

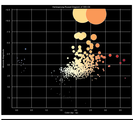
SDR-00

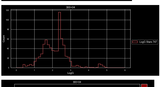
Programmer: ['Alvin']

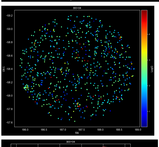
main_sequence: 10
height: 4
subgiants: 0
red_giants: 724
white_dwarfs: 0
red_giants + red_clump: 500

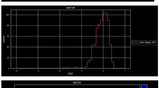
Ok: 0
Ok: 0
Ok: 0
Ok: 13
Ok: 0
Ok: 0

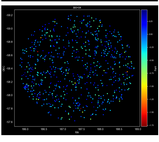
==========











==========

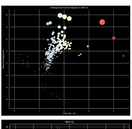
SDR-12

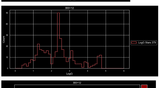
Programmer: ['Alvin']

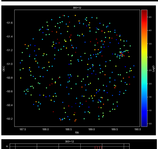
main_sequence: 0
height: 0
subgiants: 0
red_giants: 0
white_dwarfs: 0
red_giants + red_clump: 201

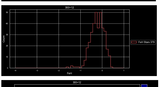
Ok: 0
Ok: 0
Ok: 0
Ok: 0
Ok: 0
Ok: 0

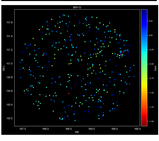
==========











==========

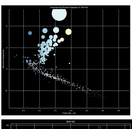
SDR-60

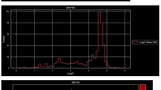
Programmer: ['Jasper', 'Yuta']

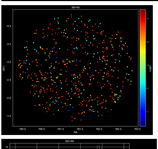
main_sequence: 401
height: 0
subgiants: 0
red_giants: 0
white_dwarfs: 0
red_giants + red_clump: 176

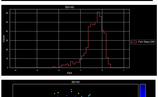
Ok: 0
Ok: 0
Ok: 0
Ok: 0
Ok: 0
Ok: 0

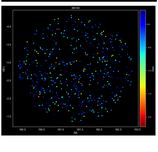
==========











==========

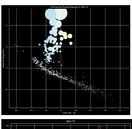
SDR-70

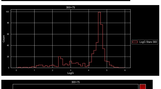
Programmer: ['Jasper', 'Yuta']

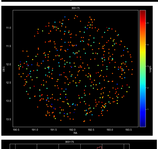
main_sequence: 168
height: 0
subgiants: 0
red_giants: 201
white_dwarfs: 0
red_giants + red_clump: 159

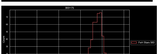
Ok: 0
Ok: 0
Ok: 194
Ok: 194
Ok: 0
Ok: 0

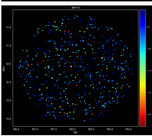
==========









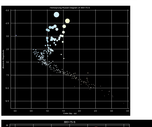


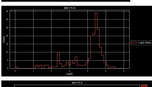
SNR-75-0

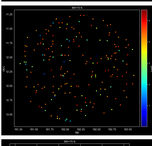
Programmes: ['Helv']

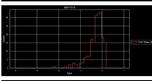
```
main_separator: 124
sub_separator: 0
subgenre: 0
sub_subgenre: 0
red_flag: 0
red_flag: red_flag: SNR
```

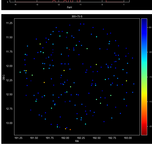
```
Nb: 1
Ns: 0
Nbs: 0
Max: 23
Min: 23
Mg: 0
```









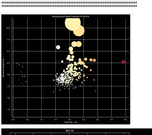


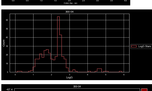
SNR-80

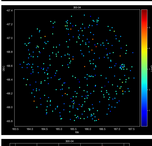
Programmes: ['Helv']

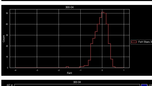
```
main_separator: 12
sub_separator: 0
subgenre: 0
sub_subgenre: 0
red_flag: 0
red_flag: red_flag: ZTR
```

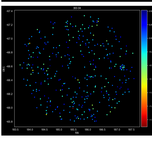
```
Nb: 2
Ns: 0
Nbs: 0
Max: 24
Min: 0
Mg: 0
```









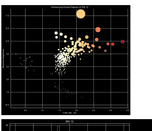


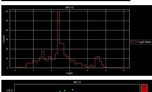
SNR-12

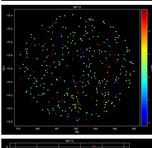
Programmes: ['Helv']

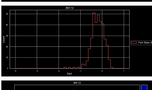
```
main_separator: 36
sub_separator: 0
subgenre: 0
sub_subgenre: 0
red_flag: 0
red_flag: red_flag: ZTR
```

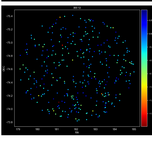
```
Nb: 1
Ns: 0
Nbs: 0
Max: 36
Min: 36
Mg: 0
```









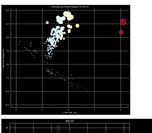


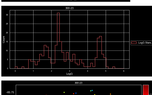
SNR-23

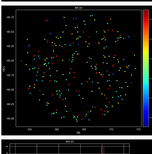
Programmes: ['Helv']

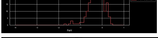
```
main_separator: 91
sub_separator: 1
subgenre: 0
sub_subgenre: 0
red_flag: 0
red_flag: red_flag: ZTR
```

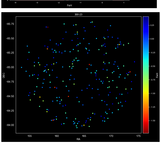
```
Nb: 1
Ns: 0
Nbs: 0
Max: 24
Min: 24
Mg: 0
```



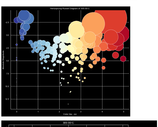


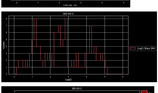


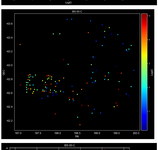


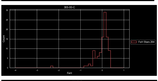


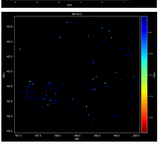
```
==========================================
==========================================

HR-MR-1

Programmer: ['Harinesan_S\n']

main_separator: 32
hydro?: 0
radiative: 1
num_galaxies: 200
num_clumps: 4
num_particle = num_clump: 222

Nx: 32
Ny: 32
Nz: 32
Nbin: 20
Mx: 8
My: 8
==========================================
==========================================
```



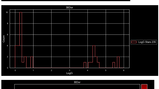


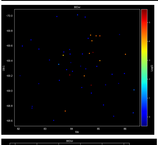


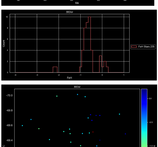


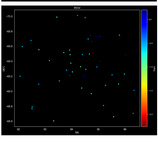


```
==========================================
==========================================

HR-MR-2

Programmer: ['Neha']

main_separator: 31
hydro?: 0
radiative: 1
num_galaxies: 4
num_clumps: 4
num_particle = num_clump: 222

Nx: 2
Ny: 32
Nz: 32
Nbin: 20
Mx: 8
My: 128
==========================================
==========================================
```

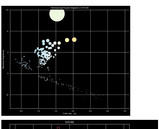


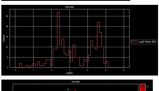


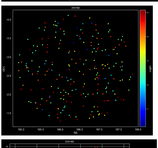


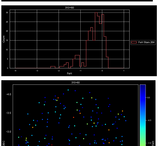


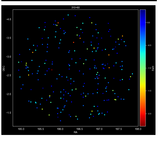
```
==========================================
==========================================

SD-MR

Programmer: ['Sanjo']

main_separator: 32
hydro?: 0
radiative: 1
num_galaxies: 384
num_clumps: 4
num_particle = num_clump: 528

Nx: 8
Ny: 8
Nz: 32
Nbin: 20
Mx: 32
My: 8
==========================================
==========================================
```



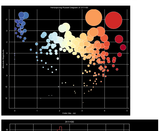


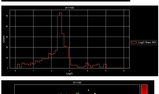


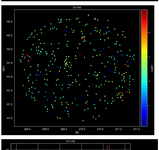


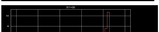


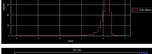
```
==========================================
==========================================

SD-HR

Programmer: ['Harini']

main_separator: 32
hydro?: 0
radiative: 1
num_galaxies: 384
num_clumps: 4
num_particle = num_clump: 278

Nx: 32
Ny: 8
Nz: 32
Nbin: 20
Mx: 8
My: 8
==========================================
==========================================
```

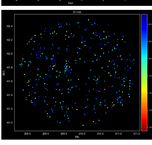




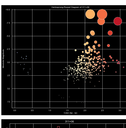


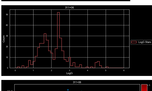


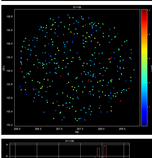


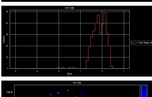


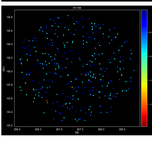
```
##############################################################
##############################################################

EC1-00

Programmer: I'Ulric^I

main_separator: 15
turnoff: 5 1
subgroup: 0
run_points: 200
run_length: 40 1
run_points = run_length: 200

Mx: 12
My: 0
Mz: 0
Vx: 270
Vy: 0
Vz: 0
##############################################################
##############################################################
```



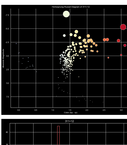


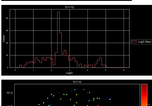


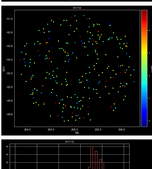


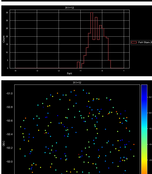


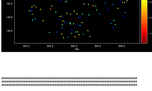
```
##############################################################
##############################################################

EC2-00

Programmer: I'Ulric^I

main_separator: 17
turnoff: 5 1
subgroup: 0
run_points: 200
run_length: 40 1
run_points = run_length: 170

Mx: 0
My: 0
Mz: 0
Vx: 270
Vy: 0
Vz: 0
##############################################################
##############################################################
```



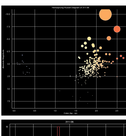


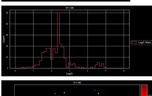


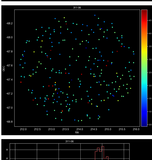


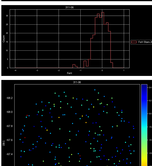


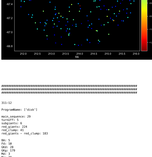
```
##############################################################
##############################################################

EC3-00

Programmer: I'Ulric^I

main_separator: 15
turnoff: 5 1
subgroup: 0
run_points: 200
run_length: 40
run_points = run_length: 185

Mx: 12
My: 0
Mz: 0
Vx: 270
Vy: 0
Vz: 0
##############################################################
##############################################################
```



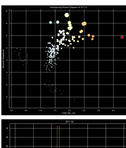


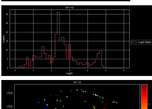


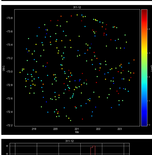


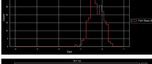
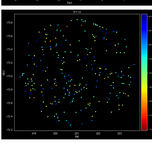


```
##############################################################
##############################################################

EC4-00

Programmer: I'Ulric^I

main_separator: 20
turnoff: 5 1
subgroup: 0
run_points: 200
run_length: 40 1
run_points = run_length: 180

Mx: 0
My: 0
Mz: 0
Vx: 270
Vy: 0
Vz: 0
##############################################################
##############################################################
```







==========

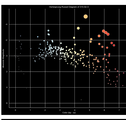
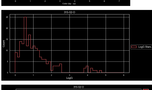
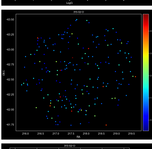
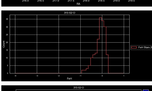
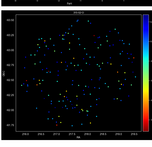
ID:92-0

Progenitors: ['ThorneHarkness_Star']

mass_expansion: 50
turbulent: 0
rot_speed: 0.0
rad_points: 255
rot_points: 0
rad_clump: 140

Ni: 1
Co: 1
Mn: 0
Ni: 0
Co: 0
Mn: 0

==========

==========

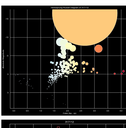
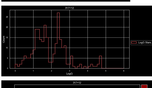
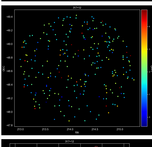
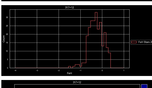
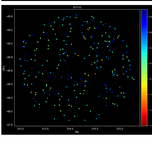
ID:93

Progenitors: ['star']

mass_expansion: 0
turbulent: 0
subpoints: 1
rot_speed: 0.0
rad_points: 255
rot_points: 0, rad_clump: 211

Ni: 1
Co: 1
Mn: 0
Ni: 253
Co: 0
Mn: 0

==========

==========

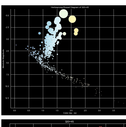
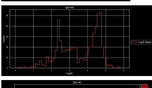
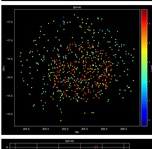
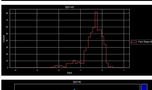
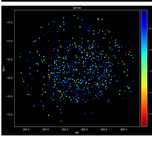
ID:95

Progenitors: ['aspen', 'Tuta']

mass_expansion: 150
turbulent: 35
subpoints: 0
rot_speed: 22
rad_points: 255
rot_points: 0, rad_clump: 247

Ni: 0
Co: 0
Mn: 150
Ni: 150
Co: 0
Mn: 0

==========

==========

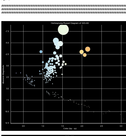
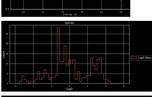
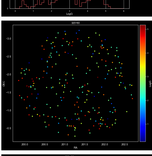
ID:96

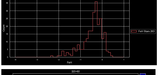
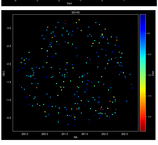
Progenitors: ['aspen']

mass_expansion: 55
turbulent: 0
subpoints: 0
rot_speed: 0.0
rad_points: 255
rot_points: 0, rad_clump: 140

Ni: 0
Co: 0
Mn: 0
Ni: 0
Co: 0
Mn: 0

==========

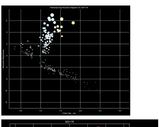
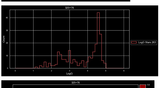
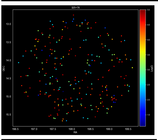
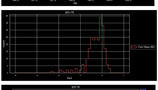
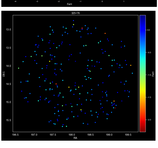
==========

[3]L/N

Programmer: ['unique']

```
main_sequence: 129
length: 4
subplots: 32
cut_points: 252
red_clump: 28
red_points = red_clump: 98

Dec: 21
Ver: 10
Hor: 29
Mag: 29
Mag: 29
Mag: 2
```

==========

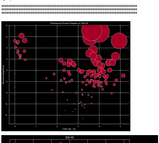
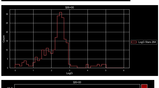
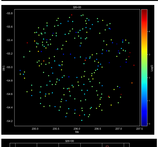
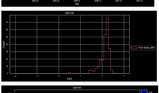
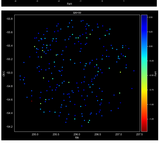
==========

[3]L/NB

Programmer: ['ciliot']

```
main_sequence: 5
length: 4
subplots: 32
cut_points: 252
red_clump: 28
red_points = red_clump: 293

Dec: 21
Ver: 10
Hor: 29
Mag: 29
Mag: 29
Mag: 2
```

==========

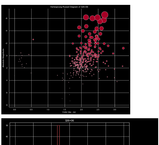
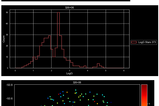
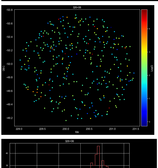
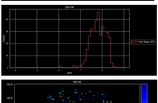
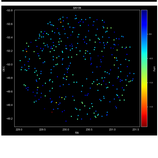
==========

[3]L/NB

Programmer: ['ciliot']

```
main_sequence: 5
length: 4
subplots: 4
cut_points: 252
red_clump: 28
red_points = red_clump: 293

Dec: 29
Ver: 10
Hor: 29
Mag: 29
Mag: 29
Mag: 29
```

==========

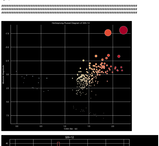
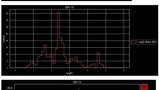
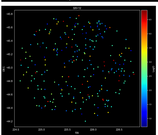
==========

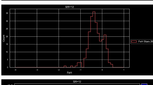
[3]L/U

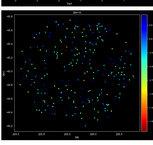
Programmer: ['ciliot']

```
main_sequence: 28
length: 4
subplots: 4
cut_points: 252
red_clump: 28
red_points = red_clump: 293

Dec: 29
Ver: 10
Hor: 29
Mag: 29
Mag: 29
Mag: 29
```

==========



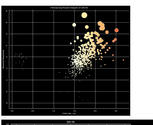


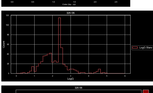
S3-N5

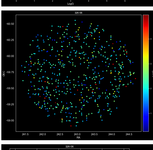
Programmes: ['Orion' 'Orion']

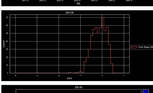
main_sequence: 10
binaries: 1
subgiants: 0
red_giants: 500
total_stars: 511
red_giants + red_clump: 437

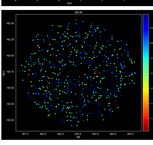
Dec: 0
Ra: 0
Dmin: 0
Dmax: 0.9
Rmin: 0
Rmax: 0









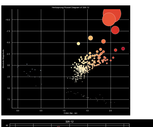


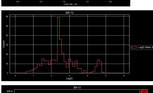
S3-L2

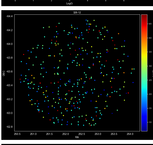
Programmes: ['Orion' 'Orion']

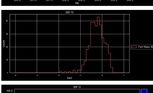
main_sequence: 36
binaries: 1
subgiants: 1
red_giants: 500
total_stars: 538
red_giants + red_clump: 258

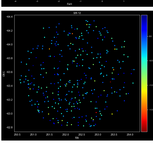
Dec: 0
Ra: 0
Dmin: 0
Dmax: 0.9
Rmin: 0
Rmax: 0









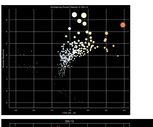


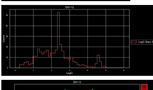
S3N-U

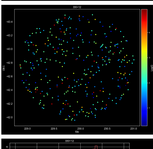
Programmes: ['Orion']

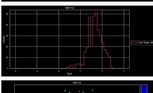
main_sequence: 25
binaries: 1
subgiants: 0
red_giants: 293
total_stars: 319
red_giants + red_clump: 274

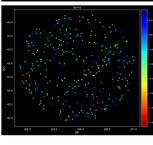
Dec: 0
Ra: 0
Dmin: 0
Dmax: 0.9
Rmin: 0
Rmax: 0









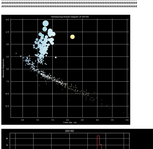


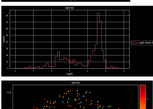
S3N-NP

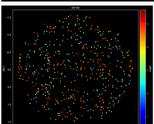
Programmes: ['Sampler' 'Varia']

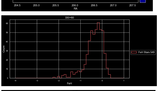
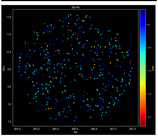
main_sequence: 992
binaries: 1
subgiants: 0
red_giants: 1000
total_stars: 1993
red_giants + red_clump: 380

Dec: 0
Ra: 0
Dmin: 0
Dmax: 0.9
Rmin: 0
Rmax: 0

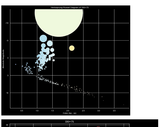
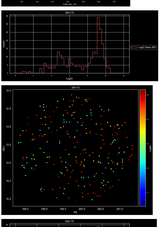
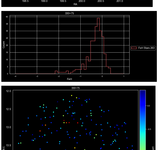


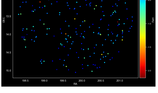




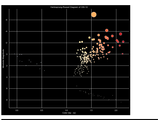
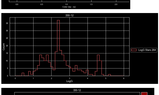
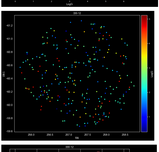
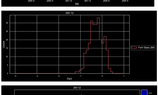
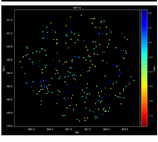




```
==================================================
==================================================

(ch-5)

Programme: ['apogee']

main_separator: 127
sub_separator: 5
subpoints: 5
red_points: 200
red_flag: 0
red_points - red_flag: 40

Mo: 5
Ma: 5
Mb: 25
Mbp: 247
Mr: 25
Mc: 5
==================================================
==================================================
```

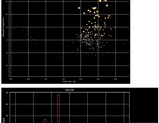
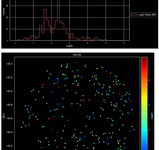
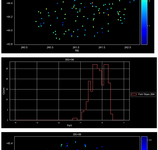
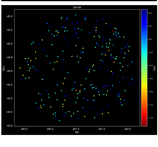






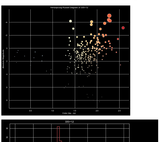
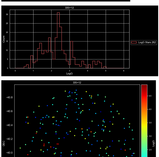
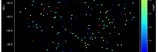

```
==================================================
==================================================

(ch-1)

Programme: ['dior']

main_separator: 38
sub_separator: 5
subpoints: 5
red_points: 200
red_flag: 0
red_points - red_flag: 195

Mo: 5
Ma: 5
Mb: 25
Mbp: 247
Mr: 25
Mc: 5
==================================================
==================================================
```

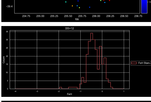






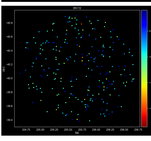
```
==================================================
==================================================

(ch-8)

Programme: ['dior']

main_separator: 7
sub_separator: 5
subpoints: 5
red_points: 200
red_flag: 0
red_points - red_flag: 198

Mo: 5
Ma: 5
Mb: 25
Mbp: 247
Mr: 25
Mc: 5
==================================================
==================================================
```


```
==================================================
==================================================

(ch-1)

Programme: ['dior']

main_separator: 16
sub_separator: 5
subpoints: 5
red_points: 200
red_flag: 0
red_points - red_flag: 194

Mo: 5
Ma: 5
Mb: 25
Mbp: 247
Mr: 25
Mc: 5
==================================================
==================================================
```





==========

EDM4Hep_prio

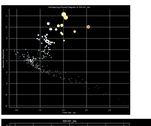
Nev: 10

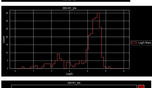
ProgramName: ['halo_prio']

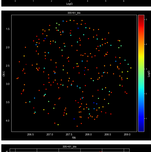
mass_separation: 152
kurtosis: 0
subjettiness: 0
rms_pseudo: 88
rms_phi: 0
rms_pseudo - rms_phi/rms: 57

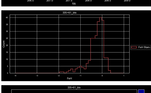
Nev: 0
Nev: 10
Nev: 20
Nev: 30
Nev: 40

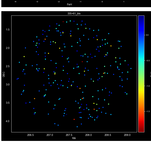
==========











==========

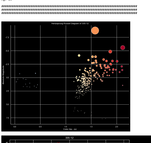
EDL-LJ

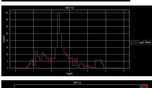
ProgramName: ['slim']

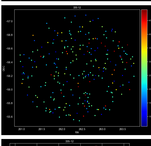
mass_separation: 38
kurtosis: 0
subjettiness: 0
rms_pseudo: 34
rms_phi: 0
rms_pseudo - rms_phi/rms: 101

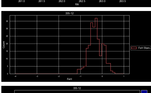
Nev: 10
Nev: 20
Nev: 30
Nev: 100
Nev: 200
Nev: 40

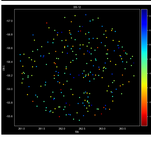
==========











==========

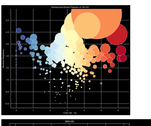
EDM-HB

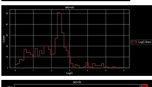
ProgramName: ['helper']

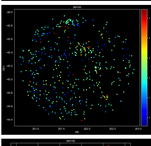
mass_separation: 17
kurtosis: 0
subjettiness: 0
rms_pseudo: 107
rms_phi: 0
rms_pseudo - rms_phi/rms: 487

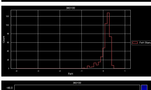
Nev: 10
Nev: 20
Nev: 30
Nev: 100
Nev: 40

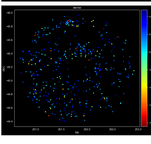
==========











==========

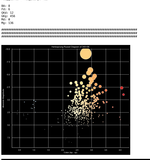
EDM-HB

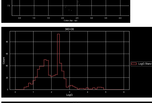
ProgramName: ['slim']

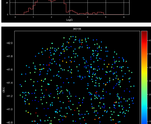
mass_separation: 16
kurtosis: 0
subjettiness: 0
rms_pseudo: 111
rms_phi: 0
rms_pseudo - rms_phi/rms: 485

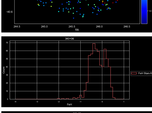
Nev: 0
Nev: 10
Nev: 20
Nev: 30
Nev: 40
Nev: 50

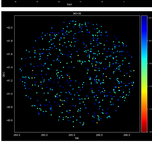
==========









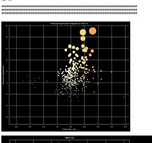


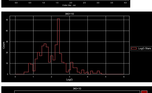
DHR-08

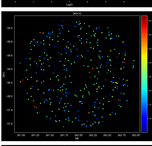
Programmes: ['ALiQr']

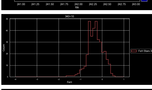
main_sequence: 0
turboFIT: 0
subgiants: 0
subdwarfs: 0
red_giants: 0
red_clump: 0
red_giants + red_clump: 347

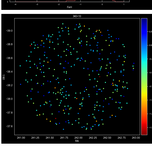
Dec: 20
Ra: 0
Mag: 10
Mag: 20
Mag: 30
Mag: 40









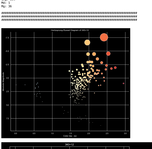


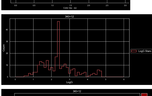
DHR-07

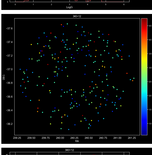
Programmes: ['ALiQr']

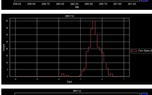
main_sequence: 17
turboFIT: 0
subgiants: 0
subdwarfs: 0
red_giants: 236
red_clump: 0
red_giants + red_clump: 598

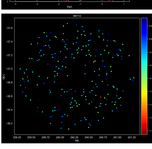
Dec: 0
Ra: 0
Mag: 10
Mag: 20
Mag: 30
Mag: 40









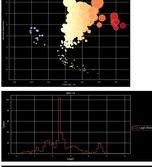


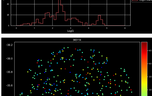
DHR-09

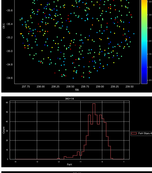
Programmes: ['ALiQr']

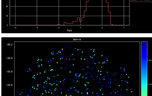
main_sequence: 0
turboFIT: 0
subgiants: 0
subdwarfs: 0
red_giants: 0
red_clump: 0
red_giants + red_clump: 311

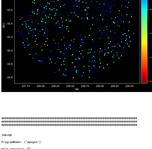
Dec: 0
Ra: 0
Mag: 10
Mag: 20
Mag: 30
Mag: 40









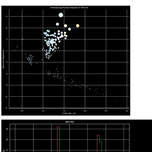


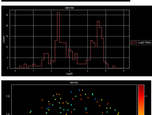
DHR-08

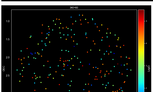
Programmes: ['ALiQr']

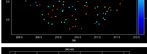
main_sequence: 0
turboFIT: 0
subgiants: 0
subdwarfs: 0
red_giants: 0
red_clump: 0
red_giants + red_clump: 123

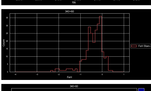
Dec: 0
Ra: 0
Mag: 10
Mag: 20
Mag: 30
Mag: 40

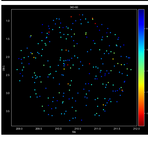












==========

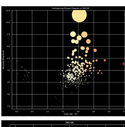
DOB-08

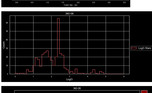
Programmer: ['Alice']

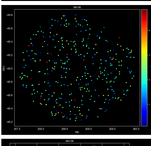
main_sequence: 13
subgenre: 4
subgenre: 8
num_genres: 2
num_genres = num_items: 292

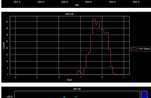
Dec: 12
Yrs: 2
Days: 5
Hour: 19
Min: 8
Mp: 40

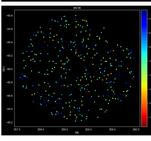
==========











==========

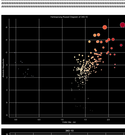
DOB-09

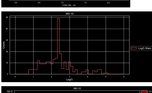
Programmer: ['Alice']

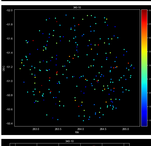
main_sequence: 15
subgenre: 4
subgenre: 8
num_genres: 2
num_genres = num_items: 286

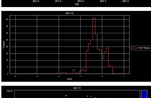
Dec: 12
Yrs: 2
Days: 5
Hour: 19
Min: 8
Mp: 40

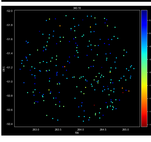
==========











==========

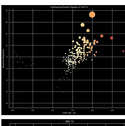
DOB-10

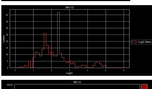
Programmer: ['Alice']

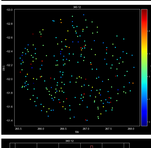
main_sequence: 17
subgenre: 4
subgenre: 8
num_genres: 2
num_genres = num_items: 295

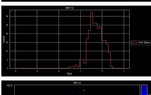
Dec: 12
Yrs: 2
Days: 5
Hour: 19
Min: 8
Mp: 40

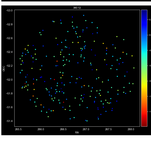
==========











==========

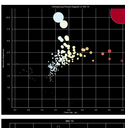
DOB-10

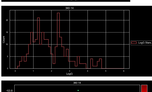
Programmer: ['Alice']

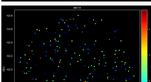
main_sequence: 15
subgenre: 4
subgenre: 8
num_genres: 2
num_genres = num_items: 215

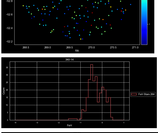
Dec: 2
Yrs: 2
Days: 5
Hour: 19
Min: 8
Mp: 40

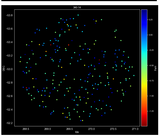
==========









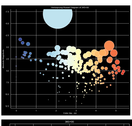


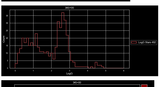
DC100

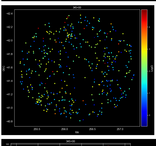
Programme: ['ls/gr']

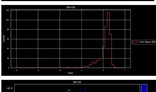
```
main_separator: 20
sample: 1
subsample: 2
cut_sum: 0.75
cut_pixels = cut_clump: 424
```

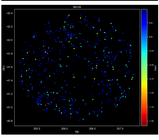
```
Nx: 5
Ny: 5
dx: 0
dy: 0
Nxy: 250
Nz: 1
Nv: 256
```









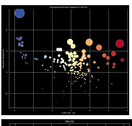


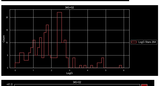
DC101

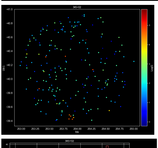
Programme: ['ls/gr']

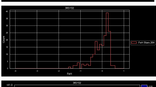
```
main_separator: 1
sample: 1
subsample: 2
cut_sum: 0.75
cut_pixels = cut_clump: 214
```

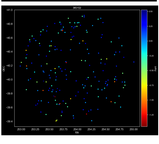
```
Nx: 5
Ny: 5
dx: 0
dy: 0
Nxy: 250
Nz: 1
Nv: 256
```









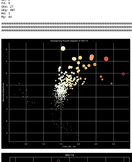


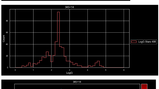
DC102

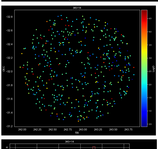
Programme: ['ls/gr']

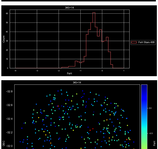
```
main_separator: 20
sample: 1
subsample: 2
cut_sum: 0.75
cut_pixels = cut_clump: 350
```

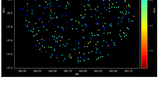
```
Nx: 5
Ny: 5
dx: 0
dy: 0
Nxy: 250
Nz: 1
Nv: 256
```









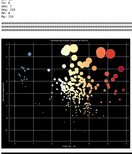


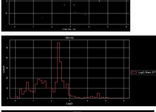
DC103

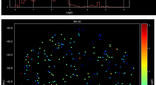
Programme: ['ls/gr']

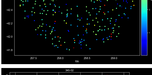
```
main_separator: 10
sample: 1
subsample: 2
cut_sum: 0.75
cut_pixels = cut_clump: 205
```

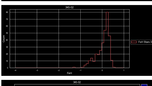
```
Nx: 5
Ny: 5
dx: 0
dy: 0
Nxy: 250
Nz: 1
Nv: 256
```

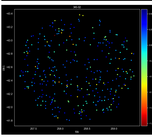


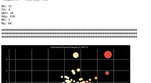


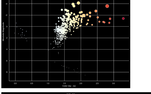


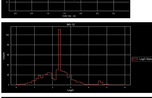


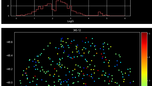

Light Curve 27



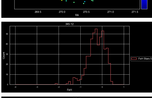

Light Curve 28

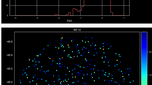


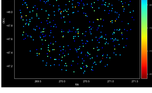

Light Curve 29



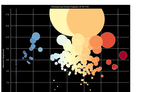
Light Curve 30

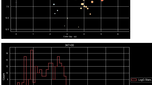


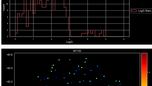

Light Curve 31

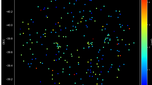


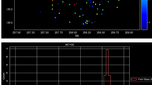
Light Curve 32

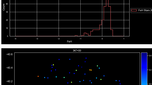

Light Curve 33

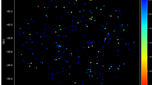


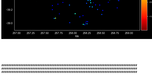

Light Curve 34



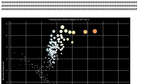

Light Curve 35

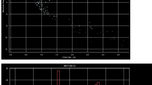


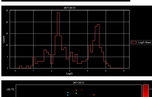

Light Curve 36

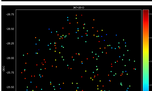


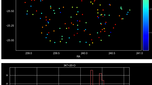
Light Curve 37

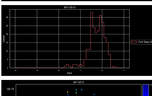


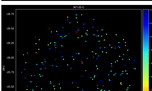

Light Curve 38

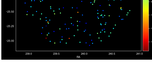


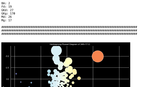

Light Curve 39

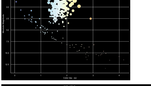


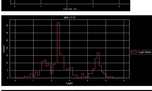

Light Curve 40

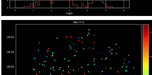



Light Curve 41


Light Curve 42




Light Curve 43



Light Curve 44

Light Curve 45

Light Curve 46

Light Curve 47

Light Curve 48

Light Curve 49

Light Curve 50

Light Curve 51

Light Curve 52

Light Curve 53

Light Curve 54

Light Curve 55

Light Curve 56

Light Curve 57

Light Curve 58

Light Curve 59

Light Curve 60

Light Curve 61

Light Curve 62

Light Curve 63

Light Curve 64

Light Curve 65

Light Curve 66

Light Curve 67

Light Curve 68

Light Curve 69

Light Curve 70

Light Curve 71

Light Curve 72

Light Curve 73

Light Curve 74

Light Curve 75

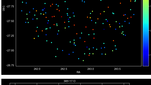
Light Curve 76

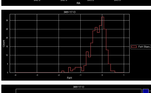
Light Curve 77

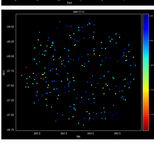
Light Curve 78

Light Curve 79

Light Curve 80







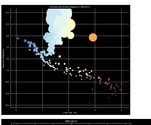
==========

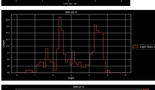
2010-2-0

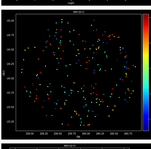
Programmes: ['wisdom_2_2v']

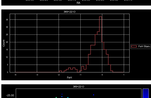
main_sequence: 70
binaries: 0
subgiants: 0
red_giants: 30
WD: 0
red_giants - red_clump: 135
Ms: 1
Mp: 1
Age: 0
Mag: 19
Mg: 19
Mp: 20

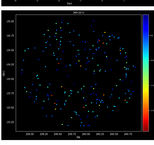
==========











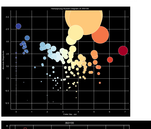
==========

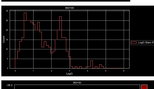
2010-10

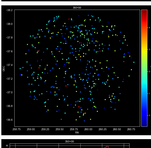
Programmes: ['ts/gr']

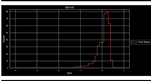
main_sequence: 0
binaries: 0
subgiants: 0
red_giants: 468
WD: 0
red_giants - red_clump: 438
Ms: 1
Mp: 1
Age: 0
Mag: 19
Mg: 19
Mp: 20

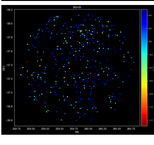
==========











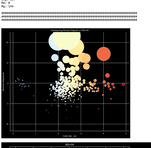
==========

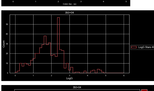
2010-10

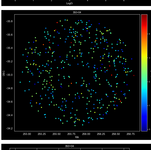
Programmes: ['ts/gr']

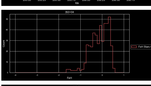
main_sequence: 0
binaries: 0
subgiants: 0
red_giants: 468
WD: 0
red_giants - red_clump: 438
Ms: 1
Mp: 1
Age: 0
Mag: 19
Mg: 19
Mp: 20

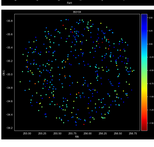
==========











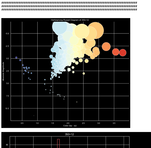
==========

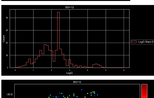
2010-12

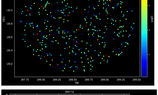
Programmes: ['ts/gr']

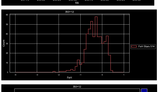
main_sequence: 0
binaries: 0
subgiants: 0
red_giants: 468
WD: 0
red_giants - red_clump: 384
Ms: 1
Mp: 1
Age: 0
Mag: 19
Mg: 19
Mp: 20

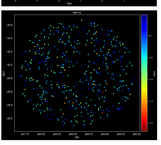
==========



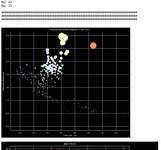


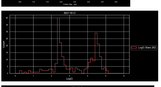


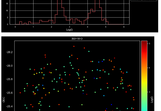


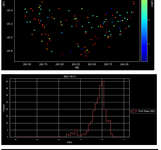


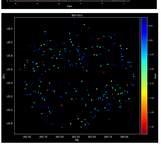
```
Z=0.0
Programme: ['rosa_1/v']

main_separator: 50
length: 4
sub_separator: 0.5
cut_points: 315
rot_angle: 90
rot_cycles: rot_cycles: 105

Ne: 5
Nh: 15
Nsh: 15
Nr: 15
Nw: 40
Np: 10
```



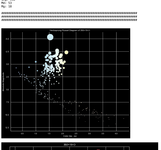


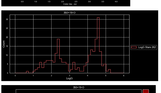


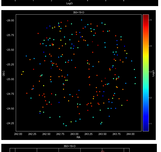


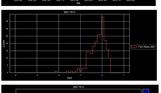


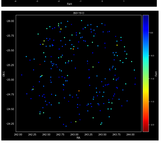
```
Z=0.0
Programme: ['rosa+ng1_1/v']

main_separator: 50
length: 4
sub_separator: 0
cut_points: 315
rot_angle: 90
rot_cycles: rot_cycles: 120

Ne: 5
Nh: 10
Nsh: 10
Nr: 10
Nw: 40
Np: 10
```



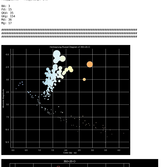


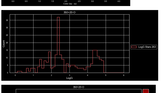


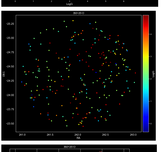


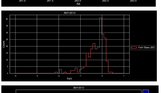


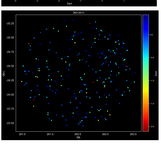
```
Z=0.0
Programme: ['rosa+ng1_1/v']

main_separator: 50
length: 4
sub_separator: 0.5
cut_points: 315
rot_angle: 90
rot_cycles: rot_cycles: 105

Ne: 5
Nh: 15
Nsh: 15
Nr: 15
Nw: 40
Np: 10
```



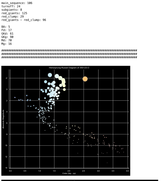


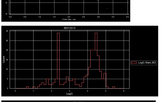


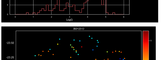


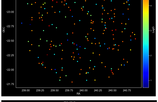


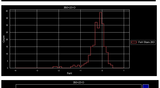
```
Z=0.0
Programme: ['rosa+ng1_1/v']

main_separator: 90
length: 4
sub_separator: 0
cut_points: 315
rot_angle: 90
rot_cycles: rot_cycles: 96

Ne: 5
Nh: 15
Nsh: 15
Nr: 40
Nw: 40
Np: 10
```

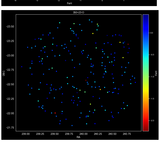




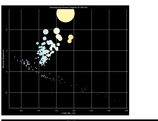


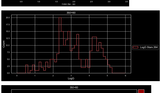


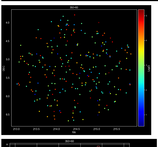


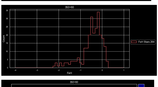


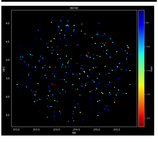
```
==================================================
==================================================

ZW-08

Programmer: [‘aspen’]

main_sequence: 50
turnoff: 10
sub_giant: 20
red_giant: 30
red_giant: 37
red_giants = red_clump: 144

Mu: 0
Sd: 0
Age: 10
Mass: 20
Mu: 0
Mu: 0
==================================================
==================================================
```



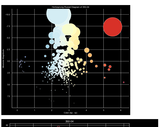


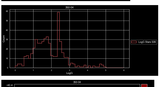


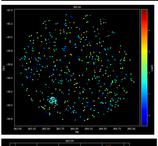


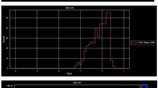


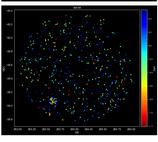
```
==================================================
==================================================

ZW-09

Programmer: [‘kelly’]

main_sequence: 32
turnoff: 5
sub_giant: 20
red_giant: 28
red_giants = red_clump: 415

Mu: 0
Sd: 0
Age: 9.9
Mass: 0
Mu: 0
==================================================
==================================================
```



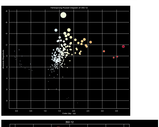


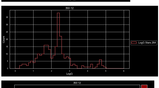


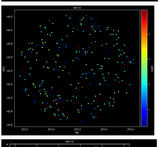


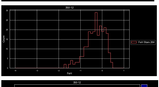


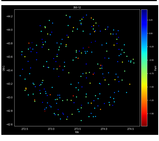
```
==================================================
==================================================

ZW-12

Programmer: [‘kelly’]

main_sequence: 15
turnoff: 5
subgiant: 2
red_giant: 10
red_clump: 98
red_giants = red_clump: 105

Mu: 12
Sd: 3
Age: 10
Mass: 89
Mu: 0
Mu: 20
==================================================
==================================================
```



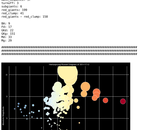


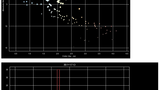


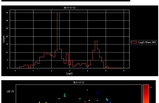


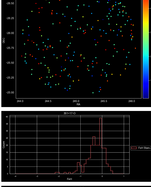


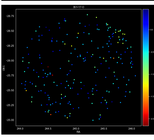
```
==================================================
==================================================

Kirill-2

Programmer: [‘stetson_lfc’]

main_sequence: 57
turnoff: 5
subgiant: 8
red_giant: 100
red_clump: 100
red_giants = red_clump: 200

Mu: 0
Sd: 0
Age: 12
Mass: 23
Mu: 0
Mu: 0
==================================================
==================================================
```









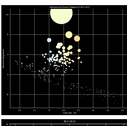


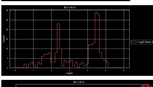
2020-0-0

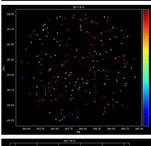
Propagation: ['wind+dry_1/w']

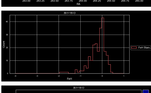
```
main_separator: 200
turnoff: 0.5
subgrants: 4
sub_points: 40
rnd_points = rnd_clump: 333
```

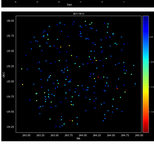
Mo: 0
Day: 0
Hour: 0
Min: 00
Sec: 00









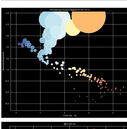


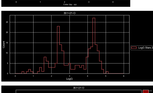
2020-0-0

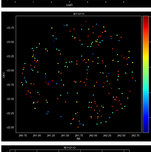
Propagation: ['wind+dry_1/w']

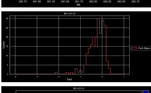
```
main_separator: 0
turnoff: 0.5
subgrants: 1
sub_points: 1
rnd_points = rnd_clump: 130
```

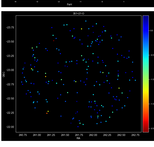
Mo: 0
Day: 0
Hour: 0
Min: 23
Sec: 00









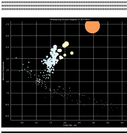


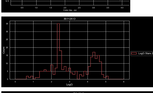
2011-0-1

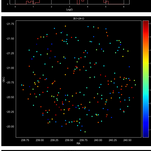
Propagation: ['wind+dry_1/w']

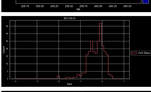
```
main_separator: 0
turnoff: 0.5
subgrants: 1
sub_points: 100
rnd_points = rnd_clump: 120
```

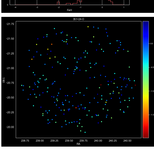
Mo: 0
Day: 0
Hour: 00
Min: 00
Sec: 00









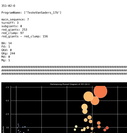


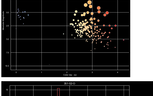
2011-02-0

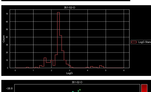
Propagation: ['Thunderbolts_1/w']

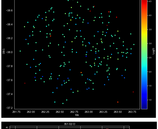
```
main_separator: 7
turnoff: 0.5
subgrants: 4
sub_points: 40
rnd_points = rnd_clump: 150
```

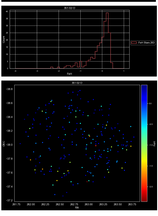
Mo: 02
Day: 0
Hour: 0
Min: 00
Sec: 00

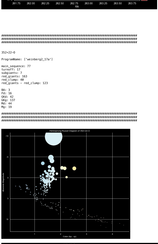




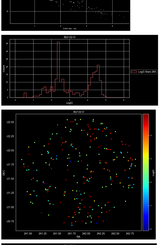


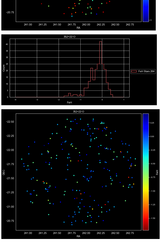


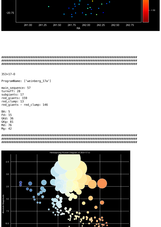


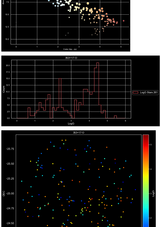


```
2024-01-0
Programmer: ['wielsberg_lfv']

main_sequence: 77
turnoff: 75
subgiants: 1
red_giants: 383
red_clump: 34
red_giants - red_clump: 323

Mv: 1
Bv: 0.5
Age: 13
Mag: 12.5
Dm: 10
Mp: 10
```

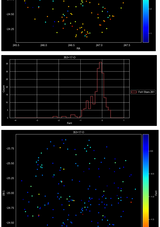


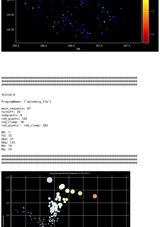


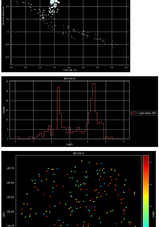


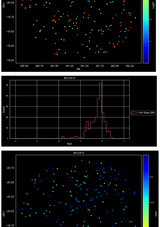


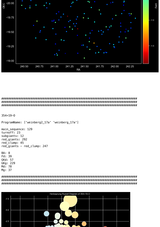
```
2024-01-0
Programmer: ['wielsberg_lfv']

main_sequence: 87
turnoff: 75
subgiants: 168
red_giants: 1
red_clump: 168
red_giants - red_clump: 166

Mv: 1
Bv: 0.5
Age: 13
Mag: 12.5
Dm: 10
Mp: 10
```



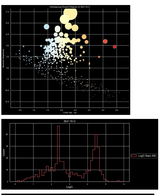




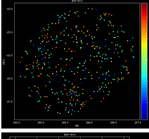


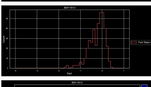


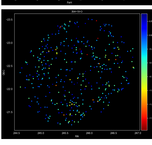
```
2024-01-0
Programmer: ['wielsberg_lfv']

main_sequence: 87
turnoff: 75
subgiants: 3
red_giants: 383
red_clump: 87
red_giants - red_clump: 383

Mv: 1
Bv: 0.5
Age: 13
Mag: 12.5
Dm: 10
Mp: 10
```



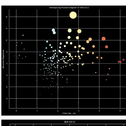

```
2024-01-0
Programmer: ['wielsberg_lfv', 'wielsberg_lfv']

main_sequence: 139
turnoff: 75
subgiants: 1
red_giants: 383
red_clump: 147
red_giants - red_clump: 147

Mv: 1
Bv: 0.5
Age: 13
Mag: 12.5
Dm: 10
Mp: 10
```

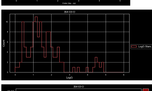


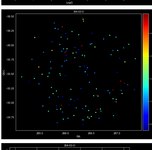


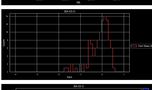


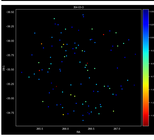

```
==================================================
==================================================

Dec-Ra-2

Prog:mdbmon: ['hellmeier_17a']

main_sequence: 5
sample: 0
subsample: 0
cut_quality: 0
cut_class: 0
cut_flags: cut_flag: 240

Ra: 21
Dec: 0
Ndet: 2
Ndet: 2
Mag: 0
Mag: 0
==================================================
==================================================
```



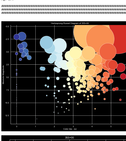


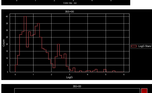


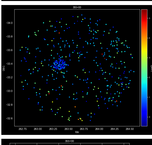


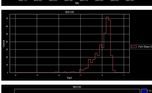


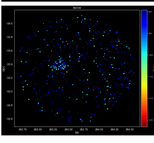

```
==================================================
==================================================

Dec-mm

Prog:mdbmon: ['hellmeier']

main_sequence: 5
sample: 0
subsample: 0
cut_quality: 50
cut_class: 0
cut_flags: cut_flag: 400

Ra: 21
Dec: 0
Ndet: 2
Ndet: 2
Mag: 19
Mag: 19
==================================================
==================================================
```



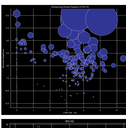


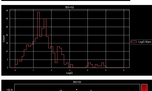


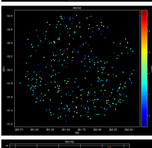


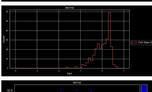


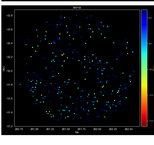

```
==================================================
==================================================

Dec-m2

Prog:mdbmon: ['hellmeier']

main_sequence: 5
sample: 0
subsample: 0
cut_quality: 50
cut_class: 0
cut_flags: cut_flag: 340

Ra: 21
Dec: 0
Ndet: 2
Ndet: 2
Mag: 0
Mag: 0
==================================================
==================================================
```



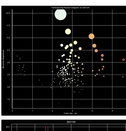


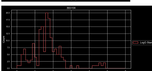


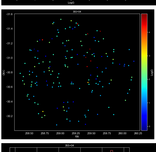


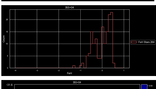


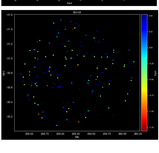

```
==================================================
==================================================

Dec-m3

Prog:mdbmon: ['hellmeier']

main_sequence: 5
sample: 0
subsample: 0
cut_quality: 50
cut_class: 0
cut_flags: cut_flag: 240

Ra: 21
Dec: 0
Ndet: 2
Ndet: 2
Mag: 19
Mag: 19
==================================================
==================================================
```



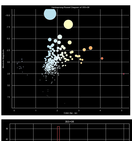


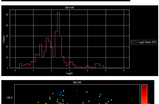


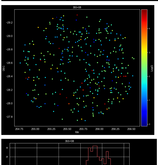


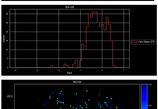


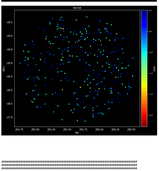
```
==========================================================
==========================================================

2D1-NB

Programme: [ 'ts/gr' ]

main_separator: 57
header: 0
tail_separator: 58
end_points: 368
tail_points: 0
end_points - tail_clump: 287

Mx: 0
My: 0
Mzz: 0
Mxy: 0.5
Mx: 0
My: 0
==========================================================
==========================================================
```



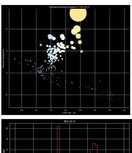


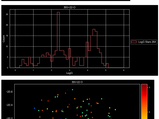


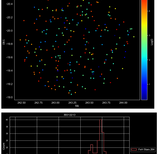


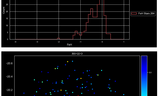


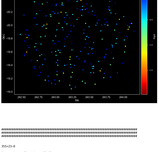
```
==========================================================
==========================================================

2D1-C3

Programme: [ 'rcos_l/s' ]

main_separator: 57
header: 0
tail_separator: 58
end_points: 368
tail_points: 0
end_points - tail_clump: 135

Mx: 0
My: 0
Mzz: 0
Mxy: 0.5
Mx: 0
My: 0
==========================================================
==========================================================
```



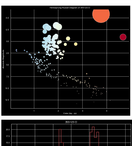


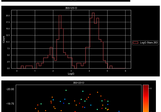


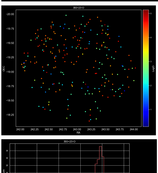


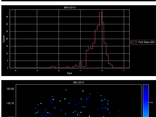


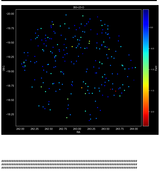
```
==========================================================
==========================================================

2D1-C-0

Programme: [ 'ts/sin/g_l/s' ]

main_separator: 57
header: 0
tail_separator: 0
end_points: 368
tail_points: 0
end_points - tail_clump: 110

Mx: 0
My: 0
Mzz: 0
Mxy: 0.5
Mx: 0
My: 0
==========================================================
==========================================================
```



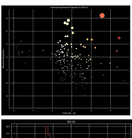


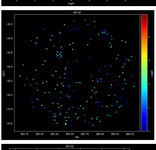


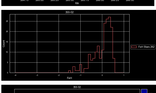


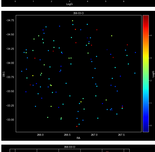


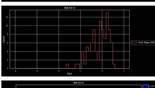
```
==========================================================
==========================================================

2D1-N2

Programme: [ 'ts/gr' ]

main_separator: 0
header: 0
tail_separator: 0
end_points: 312
tail_points: 0
end_points - tail_clump: 198

Mx: 0
My: 0
Mzz: 0
Mxy: 0.5
Mx: 0
My: 0
==========================================================
==========================================================
```

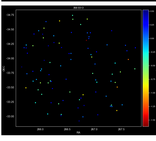




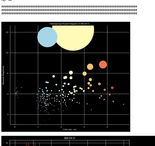


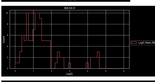


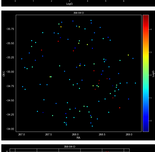


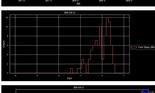


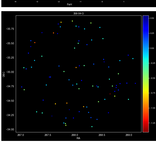
```
==========================================
==========================================

ID:00-0

Propellant: ['IsoTheran_17k']

main_sequence: 0
burnoff: 1
subpoints: 1
num_points: 250
num_clumps: 1
real_points = num_clumps: 251

Dv: 10
Ang: 0
Ang: 0
Mag: 0
Mag: 0
Mu: 0
==========================================
==========================================
```



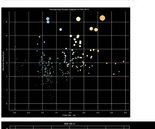


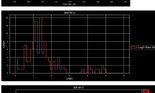


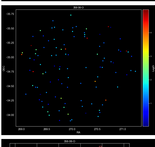


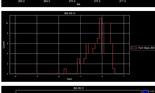


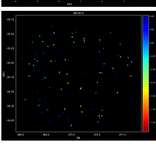
```
==========================================
==========================================

ID:00-0

Propellant: ['IsoTheran_17k']

main_sequence: 0
burnoff: 1
subpoints: 1
num_points: 250
num_clumps: 1
real_points = num_clumps: 250

Dv: 10
Ang: 0
Ang: 0
Mag: 0
Mag: 0
Mu: 0
==========================================
==========================================
```



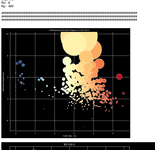


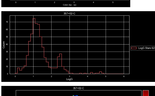


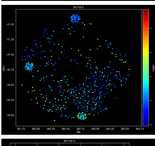


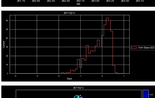


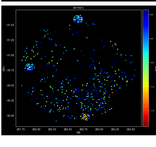
```
==========================================
==========================================

ID:01-0

Propellant: ['Lyricite_15k']

main_sequence: 0
burnoff: 1
subpoints: 1
num_points: 497
num_clumps: 1
real_points = num_clumps: 500

Dv: 10
Ang: 0
Ang: 0
Mag: 247
Mag: 0
Mu: 40
==========================================
==========================================
```



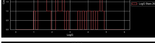


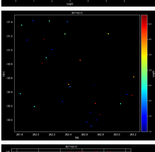


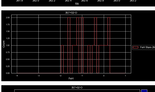


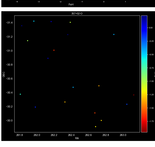


```
==========================================
==========================================

ID:02-0

Propellant: ['ThinkerSandwich_17k']

main_sequence: 0
burnoff: 1
subpoints: 1
num_points: 250
num_clumps: 1
real_points = num_clumps: 250

Dv: 10
Ang: 0
Ang: 0
Mag: 0.19
Mag: 0
Mu: 0
==========================================
==========================================
```

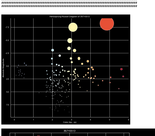


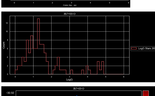


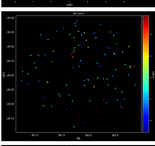


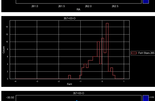


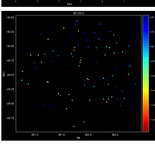

```
==========================================================
==========================================================

EO:40.0
Programmer: ['Tallinn_17a']

main_separator: 7
main_seed: 0
subgoals: 1
subgoal_seed: 0
rnd_jumps: 0
rnd_jumps_t: rnd_jump: 240

Mt: 10
Vt: 10
Mt: 0
Mt: 0
Mt: 0
Mt: 80
==========================================================
==========================================================
```



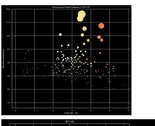


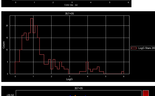


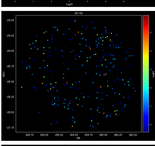


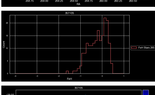


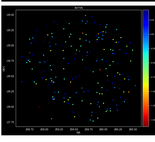

```
==========================================================
==========================================================

EO:40.
Programmer: ['unique']

main_separator: 10
main_seed: 0
subgoals: 1
subgoal_seed: 240
rnd_jumps: 0
rnd_jumps: rnd_jump: 237

Mt: 10
Vt: 10
Mt: 0
Mt: 0
Mt: 0
Mt: 80
==========================================================
==========================================================
```



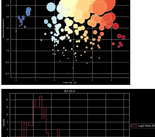


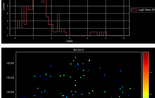


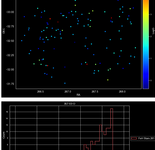


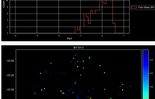


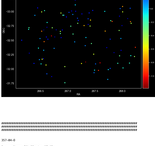

```
==========================================================
==========================================================

EO:40.0
Programmer: ['Tallinn_17a']

main_separator: 7
main_seed: 0
subgoals: 0
subgoal_seed: 0
rnd_jumps: 0
rnd_jumps: rnd_jump: 251

Mt: 0
Vt: 0
Mt: 0
Mt: 0
Mt: 0
Mt: 0
==========================================================
==========================================================
```



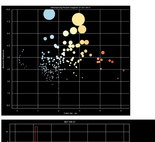


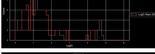


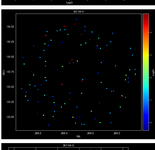


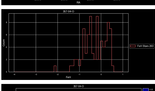


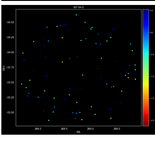

```
==========================================================
==========================================================

EO:40.0
Programmer: ['Tallinn_17a']

main_separator: 8
main_seed: 0
subgoals: 0
subgoal_seed: 0
rnd_jumps: 0
rnd_jumps: rnd_jump: 240

Mt: 10
Vt: 10
Mt: 10
Mt: 10
Mt: 10
Mt: 10
Mt: 0
==========================================================
==========================================================
```











==========

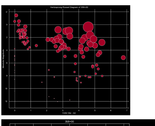
ID:98

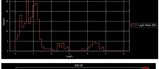
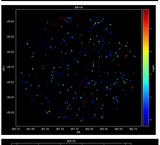
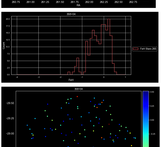
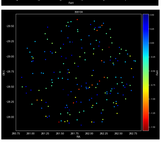
Programme: ['apogee']

mch_sequence: 3
turnoff: 0
mch_type: 0
red_quality: 80
red_status: 0
red_qlevel: = red_flag: 256

Ra: 15
Dec: 0
Gmag: 8
Rmag: 8
Ra: 15
Dec: 0

==========

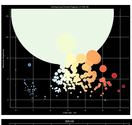
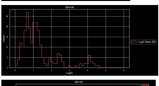
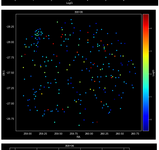
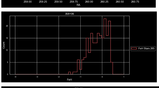
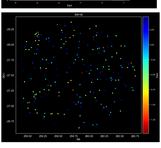

Tracking Statistics
Tracking Statistics
Tracking Statistics

ZSB-MB

Propagation: ['sprayer']

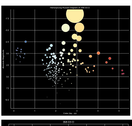
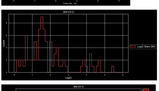
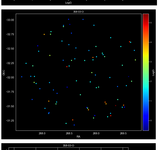
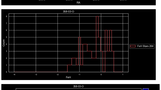
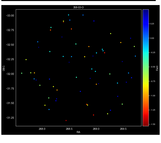
```
main_separator: 0
burnoff: 0
subgrains: 5
rad_grains: 50
rad_clumps: 0
rad_pores: rad_clump: 154

Mn: 35
Ma: 0
Mg: 0
Mfg: 0
Mc: 0
Mp: 100
```

ZSB-MC-F

Propagation: ['hollowcon_17m']

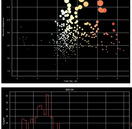
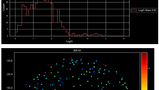
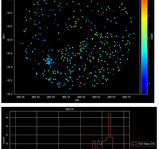
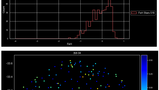
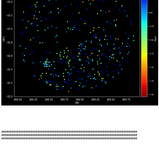
```
main_separator: 0
burnoff: 0
subgrains: 5
rad_grains: 250
rad_clumps: 0
rad_pores: rad_clump: 240

Mn: 35
Ma: 0
Mg: 0
Mfg: 0
Mc: 0
Mp: 100
```

ZSB-MF

Propagation: ['hollow']

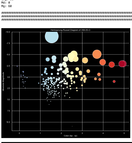
```
main_separator: 0
burnoff: 0
subgrains: 5
rad_grains: 50
rad_clumps: 0
rad_pores: rad_clump: 470

Mn: 35
Ma: 0
Mg: 0
Mfg: 0
Mc: 0
Mp: 100
```

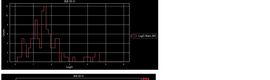






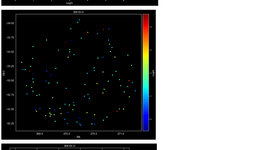
ZSB-MB-F

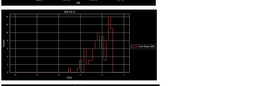
Propagation: ['hollowcon_17m']

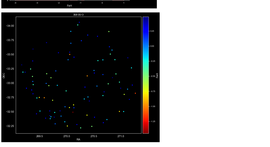
```
main_separator: 5
burnoff: 0
subgrains: 5
rad_grains: 250
rad_clumps: 0
rad_pores: rad_clump: 252

Mn: 35
Ma: 0
Mg: 0
Mfg: 0
Mc: 0
Mp: 100
```



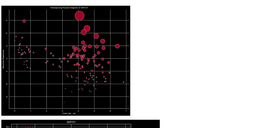


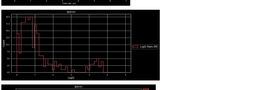


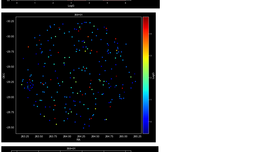


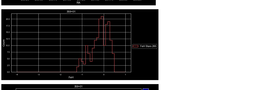


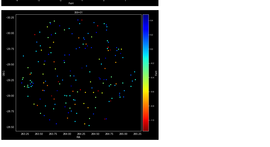
```
****************************************
****************************************

2004-03

Programname: ['sampar']

mesh_subsamples: 17
hyrad[0]: 0
hyrad[1]: 0
rad_points: 243
ray_points: 0
rad_clump: 237

Ma: 21
Mb: 21
Mc: 21
Md: 0
Me: 0
Mf: 0
Mg: 0
Mh: 0
****************************************
****************************************
```



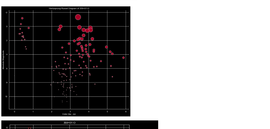


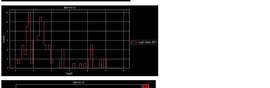


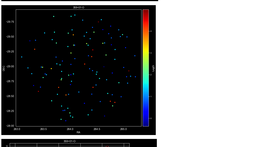


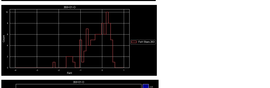


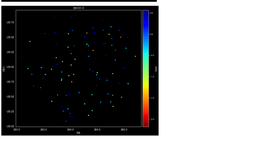
```
****************************************
****************************************

2004-05-0

Programname: ['kolimator_17m']

mesh_subsamples: 0
hyrad[0]: 0
hyrad[1]: 0
subpoints: 2
rad_points: 243
ray_points: 0
rad_clump: 240

Ma: 21
Mb: 21
Mc: 21
Md: 0
Me: 0
Mf: 0
Mg: 0
Mh: 0
****************************************
****************************************
```



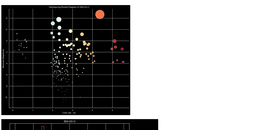


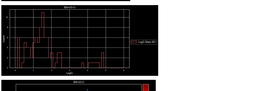


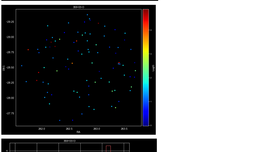


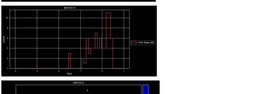


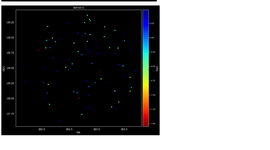
```
****************************************
****************************************

2004-05-0

Programname: ['kolimator_17m']

mesh_subsamples: 2
hyrad[0]: 1
hyrad[1]: 1
rad_points: 243
ray_points: 0
rad_clump: 245

Ma: 21
Mb: 21
Mc: 21
Md: 0
Me: 0
Mf: 0
Mg: 0
Mh: 0
****************************************
****************************************
```



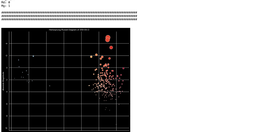


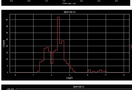


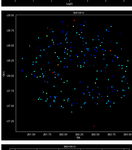


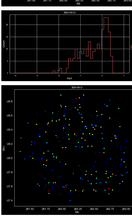


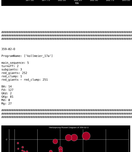
```
****************************************
****************************************

2004-05

Programname: ['kolimator_17m']

mesh_subsamples: 5
hyrad[0]: 1
hyrad[1]: 1
rad_points: 243
ray_points: 0
rad_clump: 243

Ma: 21
Mb: 21
Mc: 21
Md: 0
Me: 0
Mf: 0
Mg: 0
Mh: 0
****************************************
****************************************
```









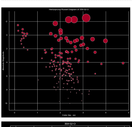


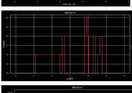
ESO-82-8

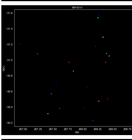
Programkoden: [ticlimcor_lfw]

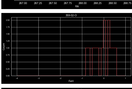
```
main_sequence= 5
turboff= 0
subgiants= 0
redgiants= 0
red_clump= 0
red_points = red_clump= 255
```

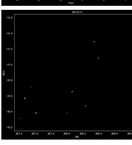
```
Mv: 10
Vcc: 12
Mag: 12
Mag: 14
Mag: 16
Mag: 18
```









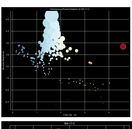


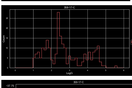
ESO-17-2

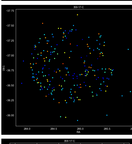
Programkoden: [ticolu_lfw]

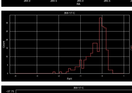
```
main_sequence= 17
turboff= 0
subgiants= 0
redgiants= 283
red_clump= 0
red_points = red_clump= 592
```

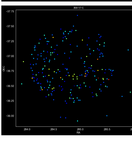
```
Mv: 8
Vcc: 10
Mag: 12
Mag: 14
Mag: 16
Mag: 18
```









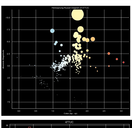


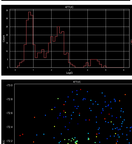
ATHC

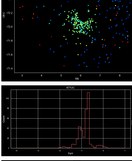
Programkoden: [ticluster_gw']

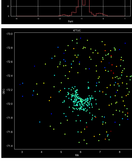
```
main_sequence= 22
turboff= 0
subgiants= 0
redgiants= 0
red_clump= 0
red_points = red_clump= 346
```

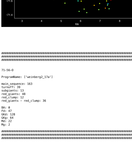
```
Mv: 8
Vcc: 10
Mag: 12
Mag: 14
Mag: 16
Mag: 18
```









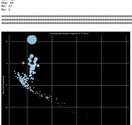


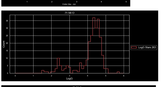
Fn-Ho-8

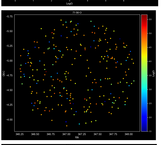
Programkoden: [ticlebirgl_lfw']

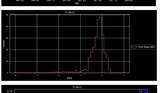
```
main_sequence= 183
turboff= 0
subgiants= 0
redgiants= 0
red_clump= 0
red_points = red_clump= 36
```

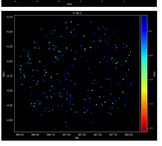
```
Mv: 8
Vcc: 10
Mag: 12
Mag: 14
Mag: 16
Mag: 18
```

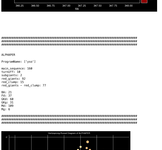




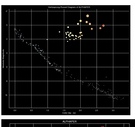


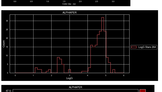


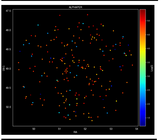


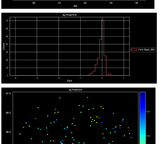


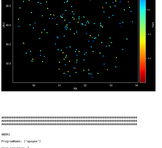

```
==================================================

ALPHAPR

Programfamen: ['cscc']

main_composition: 100
subgenre: 0
subgenre: 0
sub_genre: 0
sub_genre: 0
total_frames: 0
total_frames: 0 total_clumps: 77

Nx: 0
Ny: 0
Nz: 0
Mx: 0
My: 0
Mz: 0
Mw: 0
==================================================
```



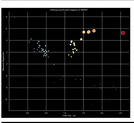


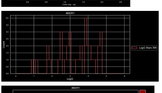


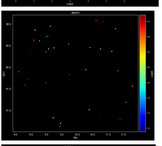


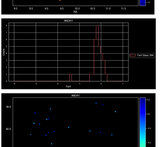



```
==================================================

BARFJ

Programfamen: ['spongen']

main_composition: 0
subgenre: 0
subgenre: 0
sub_genre: 0
sub_genre: 0
total_frames: 0
total_frames: 0 total_clumps: 174

Nx: 0
Ny: 0
Nz: 0
Mx: 0
My: 0
Mz: 0
Mw: 0
==================================================
```

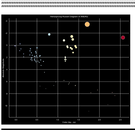


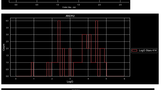


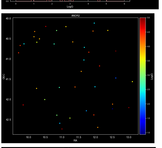


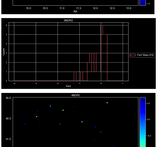



```
==================================================

BARFJ

Programfamen: ['spongen']

main_composition: 55
subgenre: 0
subgenre: 0
sub_genre: 0
sub_genre: 0
total_frames: 0
total_frames: 0 total_clumps: 589

Nx: 0
Ny: 0
Nz: 0
Mx: 0
My: 0
Mz: 0
Mw: 0
==================================================
```

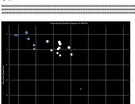


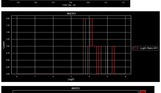


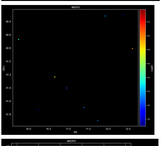


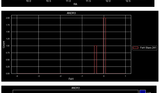


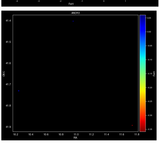

```
==================================================

BARFJ

Programfamen: ['cscc']

main_composition: 0
subgenre: 0
subgenre: 0
sub_genre: 0
sub_genre: 0
total_frames: 0
total_frames: 0 total_clumps: 231

Nx: 0
Ny: 0
Nz: 0
Mx: 0
My: 0
Mz: 0
Mw: 0
==================================================
```



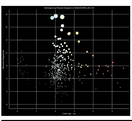


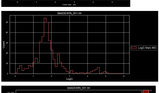


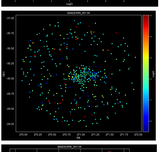


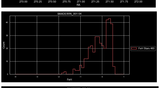


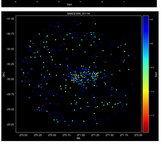
```
==================================================
==================================================

BOARDSIZE_BOX=8X8

Programmers: ['aquque']

main_sequence: 10
turnoff: 0
temperature: 1
rand_points: 10
rand_clamp: 20
rand_points = rand_clamp: 413

Wn: 20
Bn: 0
Wpp: 0
Bpp: 252
Wk: 0
Bk: 128
==================================================
==================================================
```



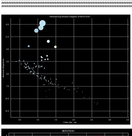


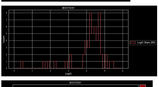


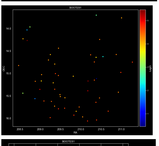


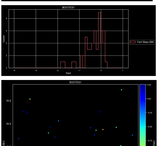


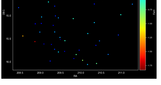
```
==================================================
==================================================

BOARD8X8

Programmers: ['hello_dude']

main_sequence: 10
turnoff: 0
temperature: 1
rand_points: 10
rand_clamp: 20
rand_points = rand_clamp: 223

Wn: 0
Bn: 0
Wpp: 20
Bpp: 0
Wk: 0
Bk: 0
==================================================
==================================================
```



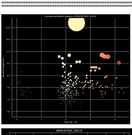


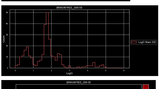


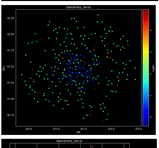


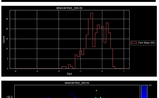


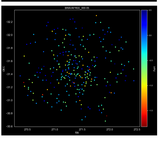
```
==================================================
==================================================

BOARD7X7_BOX_B1

Programmers: ['aquque']

main_sequence: 10
turnoff: 0
temperature: 1
rand_points: 10
rand_clamp: 20
rand_points = rand_clamp: 250

Wn: 20
Bn: 0
Wpp: 0
Bpp: 84
Wk: 0
Bk: 113
==================================================
==================================================
```



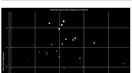


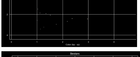


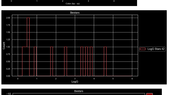


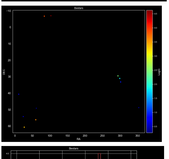


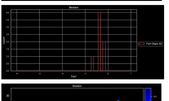
```
==================================================
==================================================

Boxlarx

Programmers: ['cun' 'cun' 'cun' 'cun' 'cun' 'cun' 'cun' 'cun' 'cun' 'cun' 'cun' 'cun' 'cun' 'cun' 'cun'
'cun' 'cun' 'cun' 'cun' 'cun' 'cun' 'cun' 'cun' 'cun' 'cun' 'cun' 'cun' 'cun' 'cun']

main_sequence: 10
turnoff: 0
temperature: 1
rand_points: 10
rand_clamp: 20
rand_points = rand_clamp: 10

Wn: 0
Bn: 0
Wpp: 0
Bpp: 20
Wk: 0
Bk: 0
==================================================
==================================================
```

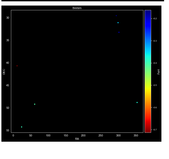




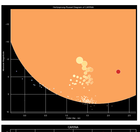


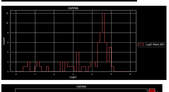


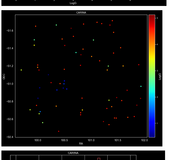


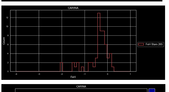


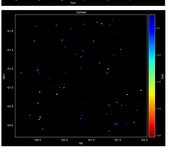

```
*****************************************************************
*****************************************************************

CAMERA

Programmer: [‘Nate_Kupp’]

main_sequence: 40
turnoff: 5
sub_giant: 0
red_giant: 250
hb: 0
red_giants = red_clump: 250

Dec: 0
RA: 0
Omega: 125
Inc: 0
Roll: 0
Mass: 1

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



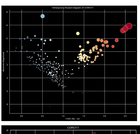


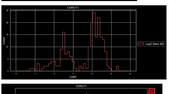


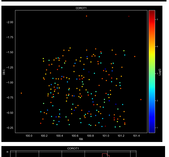


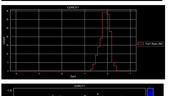


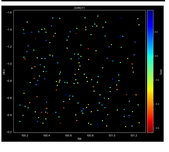

```
*****************************************************************
*****************************************************************

COMET1

Programmer: [‘arc’]

main_sequence: 74
turnoff: 5
sub_giant: 0
red_giant: 170
hb: 0
red_giants = red_clump: 187

Dec: 45
RA: 45
Omega: 45
Inc: 45
Roll: 0
Mass: 0

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

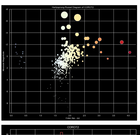
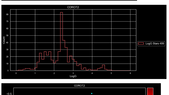
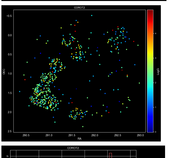
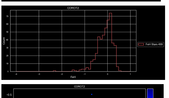
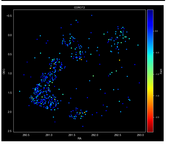











```
*****************************************************************
*****************************************************************

COMET2

Programmer: [‘arc’]

main_sequence: 20
turnoff: 5
sub_giant: 0
red_giant: 20
hb: 0
red_giants = red_clump: 306

Dec: 0
RA: 0
Omega: 0
Inc: 123
Roll: 0
Mass: 0

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