```
Python 3.7.8 (default, Jul 24 2020, 07:29:10)
[GCC 4.2.1 Compatible Apple LLVM 9.1.0 (clang-902.0.39.2)] on darwin.
IPython 7.2.0 -- An enhanced Interactive Python.

In [1]: runfile('/Users/jonathanscholz/Engage My Field IM 3.py', wdir='/Users/jonathanscholz')
/Users/jonathanscholz/Lib/anaconda3/bin/python
Using TensorFlow backend.

Class 0: 10
Class 1: 1
Class 2: 1242
Class 3: 5248
Class 4: 12148
Class 5: 17248
Class 6: 12148
Class 7: 5248
Class 8: 1242

Fn: 42212
TNfn: 52148
TNfp: 52148
Tn: 42212
Tp: 10022

#11: Stars 47280?

Wc: Stars 5730

Tp_c: Stars 5230
Fn_c: Stars 5230
Tn_c: Stars 20890
Fp_c: Stars 20890

TNP_c: Stars 20890
TNN_c: Stars 20890
FNP_c: Stars 5230
FNN_c: Stars 12051

FPp_c: Stars 20890
FNp_c: Stars 5230
TPp_c: Stars 5230
TNp_c: Stars 20890

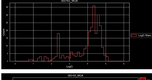
Wp_c: Stars 5730
Wn_c: Stars 7920
Tp_c: Stars 5230
Fn_c: Stars 1231

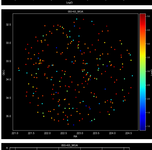
Wp_c: Stars 5230
Wn_c: Stars 1231
Tp_c: Stars 1231
Fn_c: Stars 5230

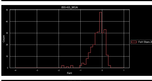
Folds: 1366

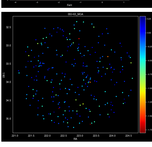
Subset of Folds: 250
```

```
#################################
#0141_MLA
#0141_MLA
#0141_MLA
```



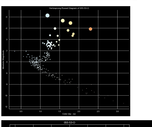


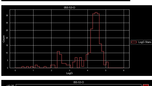


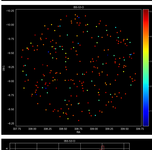


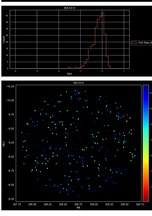

```
2015-12-2
Programmer: ['Cristian']
mass_separator: 1012
halo0=[7.0]
halo1=[7.0]
red_points: 56
blue_points: 0
red_clumps: 47

Dir: 0
Mass: 30
Mass: 30
Mass: 30
Mass: 30
Mass: 30
```





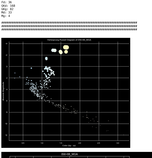


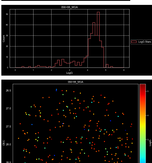


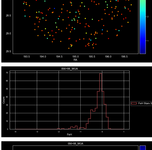

```
2014-05_MLA
Programmer: ['George']

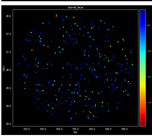
mass_separator: 1000
halo0=[7.0]
halo1=[7.0]
red_points: 30
blue_points: 0
red_clumps: 56

Dir: 0
Mass: 30
Mass: 30
Mass: 30
Mass: 30
Mass: 30
```





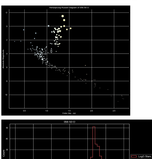


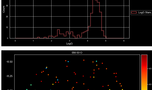


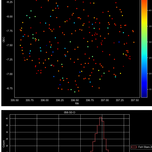

```
2014-10-2
Programmer: ['Kostantantsara_Ciro']

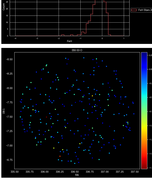
mass_separator: 1000
halo0=[7.0]
halo1=[7.0]
red_points: 30
blue_points: 0
red_clumps: 50

Dir: 0
Mass: 30
Mass: 30
Mass: 30
Mass: 30
Mass: 30
```





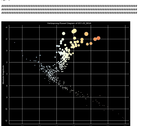


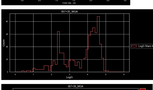


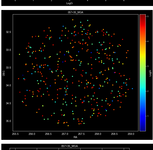

```
2013-05_MLA
Programmer: ['George']

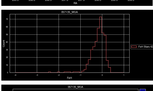
mass_separator: 100
halo0=[7.0]
halo1=[7.0]
red_points: 210
blue_points: 0
red_clumps: 135

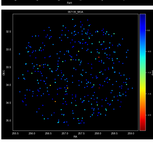
Dir: 0
Mass: 30
Mass: 30
Mass: 30
Mass: 30
Mass: 30
```









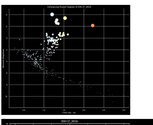


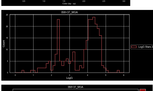
```
ID:0:C_PGA

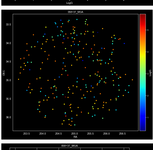
Programkamer: ['merge']

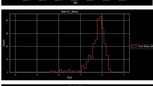
main_sequence: 185
variant: 1.1
subgenre: 8
sub_genre: 168
cut_index: 28
cut_points: [-50,1]e: 86

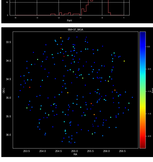
Nr: 1
Vr: 0
Mr: 0
Mgr: 87
Mg: 0
Mp: 1
```









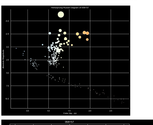


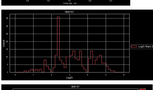
```
ID:0:C7

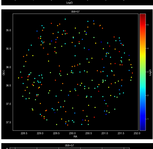
Programkamer: ['merge']

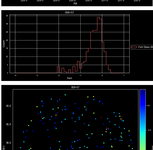
main_sequence: 65
variant: 1.1
subgenre: 8
sub_genre: 168
cut_index: 28
cut_points: [-50,1]e: 130

Nr: 0
Vr: 0
Mr: 0
Mgr: 78
Mg: 0
Mp: 0
```







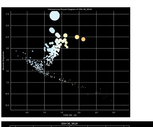


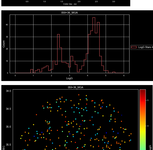
```
ID:0:D_PGA

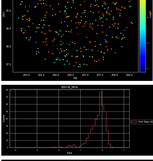
Programkamer: ['merge']

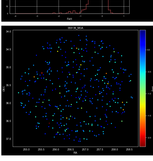
main_sequence: 178
variant: 1.1
subgenre: 15
sub_genre: 168
cut_index: 28
cut_points: [-50,1]e: 130

Nr: 0
Vr: 0
Mr: 88
Mgr: 88
Mg: 0
Mp: 0
```









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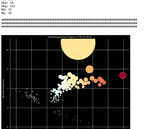
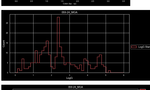
ID:0:D_PGA

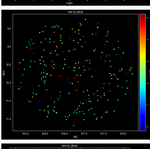
Programkamer: ['merge']

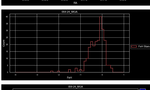
main_sequence: 31
variant: 1.1
subgenre: 1
sub_genre: 168
cut_index: 28
cut_points: [-50,1]e: 177

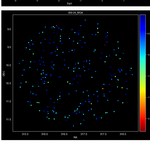
Nr: 0
Vr: 0
Mr: 0
Mgr: 152
Mg: 0
Mp: 0
```











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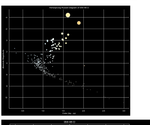
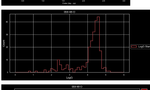
0030-001

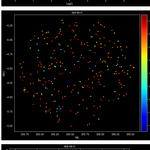
Programmers: ['Victoriaterbach_Lin']

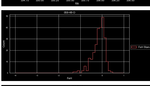
main_sequence: 983
binaries: 17
subgiants: 0
red_giants: 60
ms_stars: 0
red_giants + red_clump: 47

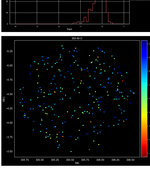
Bn: 0
Sn: 0
Mdn: 139
Mrn: 0
Mg: 0
Mb: 0
================================================
================================================
```











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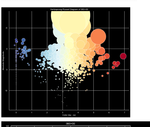
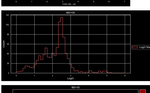
0030-002

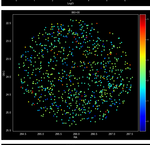
Programmers: ['sanyam' 'sanyam-maruti']

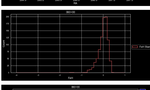
main_sequence: 20
binaries: 0
subgiants: 0
red_giants: 0
ms_stars: 340
red_giants + red_clump: 772

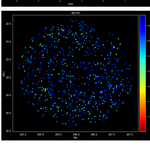
Bn: 0
Sn: 0
Mdn: 0
Mrn: 89
Mg: 0
Mb: 100
================================================
================================================
```











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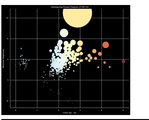
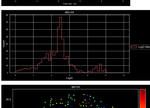
0030-003

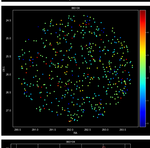
Programmers: ['sanyam' 'sanyam-maruti']

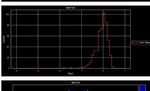
main_sequence: 33
binaries: 0
subgiants: 0
red_giants: 525
ms_stars: 0
red_giants + red_clump: 480

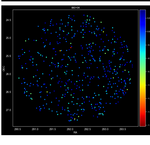
Bn: 0
Sn: 0
Mdn: 0
Mrn: 92
Mg: 0
Mb: 0
================================================
================================================
```











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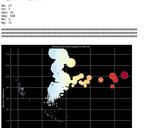
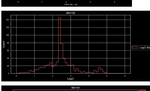
0030-005

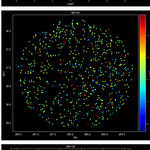
Programmers: ['sanyam' 'sanyam-maruti']

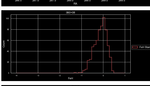
main_sequence: 96
binaries: 0
subgiants: 0
red_giants: 0
ms_stars: 1
red_giants + red_clump: 436

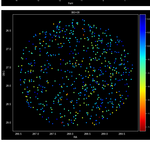
Bn: 0
Sn: 0
Mdn: 0
Mrn: 0
Mg: 0
Mb: 0
================================================
================================================
```











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##################################################
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0040-12

Programmer: I'aspser I

main_sequence: 15
turnoff: 15
subgiants: 5
red_giants: 15
red_giants - red_clump: 141

Mu: 10
Mv: 0
Mb: 0
Mhp: 150
Mr: 0
Mu: 0

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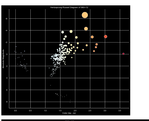
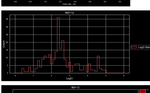
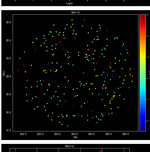
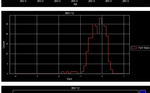
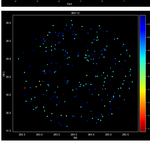
```











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0036-70

Programmer: I'aspser I

main_sequence: 10
turnoff: 15
subgiants: 5
red_giants: 15
red_giants - red_clump: 106

Mu: 0
Mv: 0
Mb: 0
Mhp: 150
Mr: 0
Mu: 0

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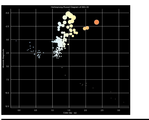
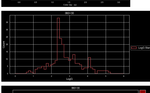
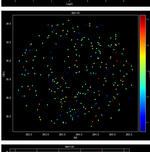
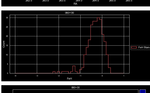
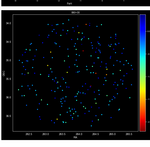
```











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0040-30_PLA2

Programmer: I'aspser I

main_sequence: 50
turnoff: 15
subgiants: 15
red_giants: 15
red_giants - red_clump: 42

Mu: 0
Mv: 0
Mb: 0
Mhp: 150
Mr: 0
Mu: 0

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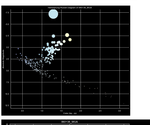
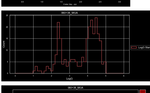
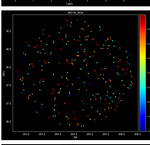
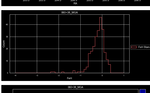
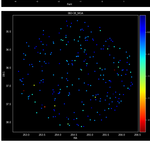
```











```
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0040-30

Programmer: I'aspser I

main_sequence: 85
turnoff: 15
subgiants: 5
red_giants: 15
red_giants - red_clump: 124

Mu: 0
Mv: 0
Mb: 0
Mhp: 157
Mr: 0
Mu: 0

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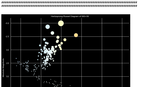
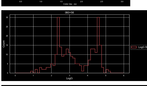
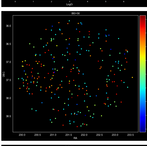
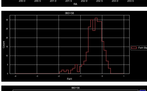
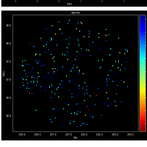






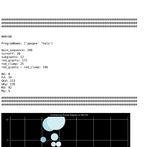


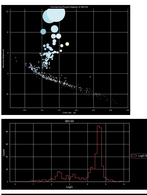


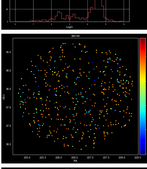
```
0040:00
Prog=gadget [/gscgpm/ "hafa"]

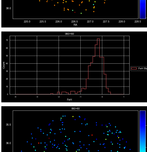
main_snapnum: 100
hostprf: 10
subhaloprf: 11
root_prefix: 213
root_index: 10
root_prefix = root_index: 140

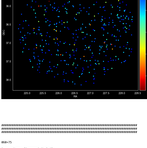
Nx: 0
Ny: 0
Nz: 0
Mxp: 0
Myp: 0
Mzp: 0
Mv: 0
```







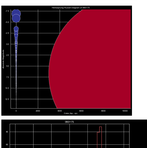


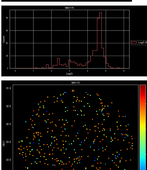


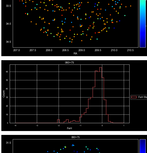
```
0040:75
Prog=gadget [/gscgpm/ "hafa"]

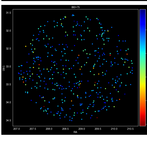
main_snapnum: 40
hostprf: 10
subhaloprf: 11
root_prefix: 213
root_index: 10
root_prefix = root_index: 205

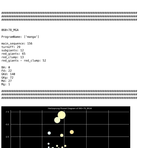
Nx: 0
Ny: 0
Nz: 0
Mxp: 0
Myp: 0
Mzp: 0
Mv: 0
```







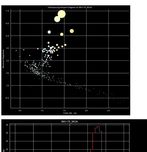


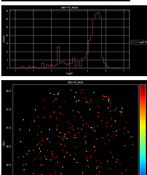


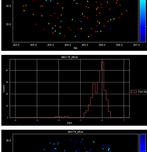
```
0040:76_0CA
Prog=gadget [/gscgpm/]

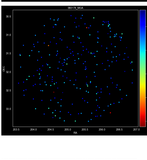
main_snapnum: 136
hostprf: 10
subhaloprf: 11
root_prefix: 51
root_index: 10
root_prefix = root_index: 52

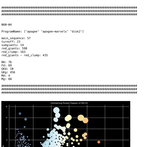
Nx: 0
Ny: 0
Nz: 0
Mxp: 0
Myp: 0
Mzp: 0
```











```
0040:00
Prog=gadget [/gscgpm/gscgpm-mercurio/ "Eirik"]

main_snapnum: 57
hostprf: 10
subhaloprf: 11
root_prefix: 158
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Ny: 0
Nz: 0
Mxp: 0
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Mzp: 0
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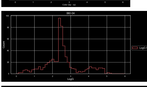
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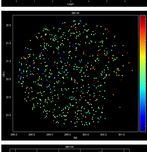
Time
Flux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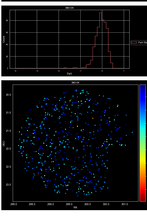
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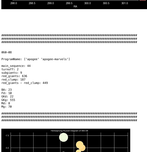
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Phase
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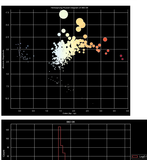
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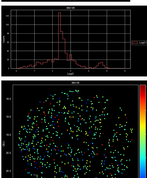
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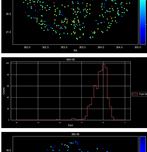
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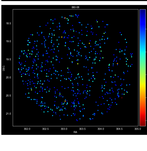
Flux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Phase
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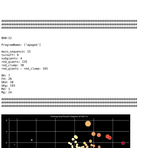
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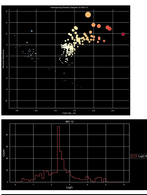
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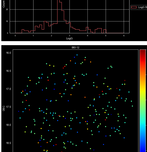
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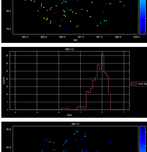
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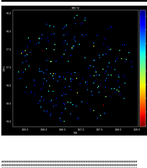
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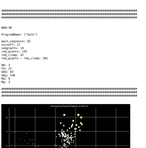
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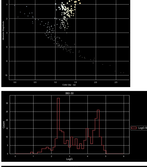
Flux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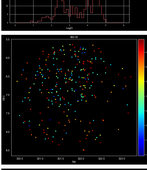
Flux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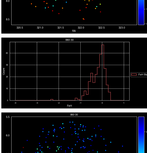
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Phase
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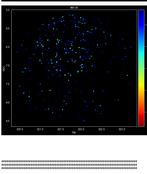
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Phase
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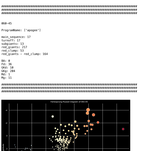
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Light Curve 0002
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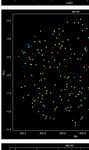
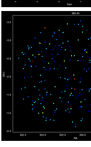




****

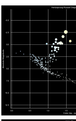
BK8-75

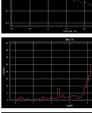
Programkeys: ['Velr']

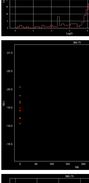
main_sequence: 212
turnoff: 75
sub_giants: 68
red_giants: 18
red_clump: 51

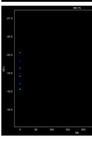
BH: 0
BS: 0
SHS: 158
MS: 0
MG: 0
MC: 0

****









****

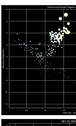
BS3-35_MS4

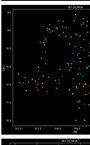
Programkeys: ['Gaiagr']

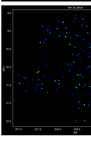
main_sequence: 58
turnoff: 31
subgiants: 27
red_giants: 18
red_clump: 76

BH: 0
BS: 35
SHS: 0
MS: 58
MG: 0

****







****

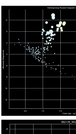
BS3-35_MS4

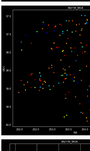
Programkeys: ['Gaiagr']

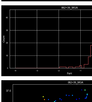
main_sequence: 76
turnoff: 41
subgiants: 36
red_giants: 18
red_clump: 57

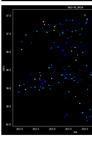
BH: 0
BS: 0
SHS: 0
MS: 76
MG: 0
MC: 0

****









****

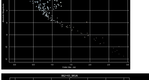
BS3-62_MS4

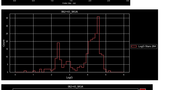
Programkeys: ['Gaiagr']

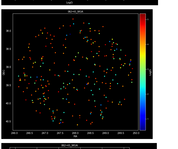
main_sequence: 136
turnoff: 75
subgiants: 35
red_giants: 18
red_clump: 76

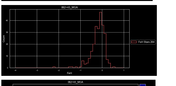
BH: 0
BS: 0
SHS: 0
MS: 0
MG: 0
MC: 0

****




Log2 Mass [M]

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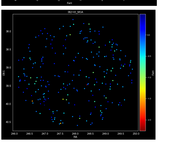
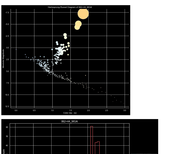
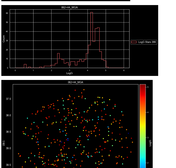
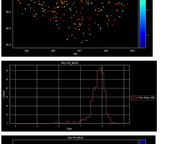
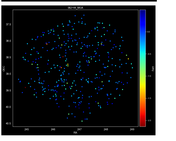
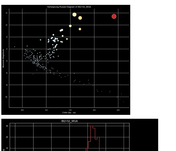


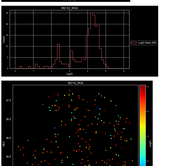


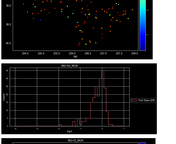


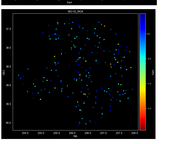


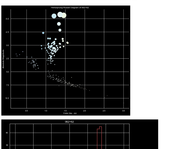


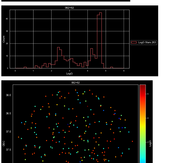


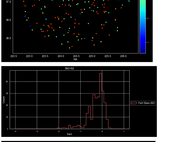


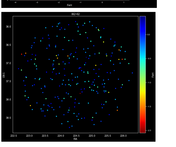










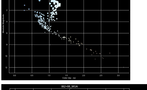


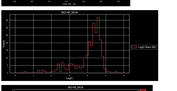
Log2 Mass [M]

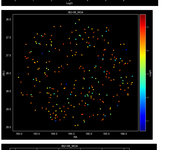
Cut Mass [M]

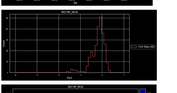
Log2 Mass [M]

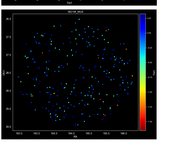
Cut Mass [M]











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BEHAVE_MCAS

Programmers: ['George']

max_sequence: 97
turnoff: 99
subgoaltr: 20
max_cycles: 40
rnd_points = rnd_fly(np: 71)

Dec 8
Jan 19
Feb 28
Mar 10
Mar 31
Apr 9
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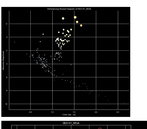

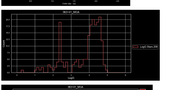

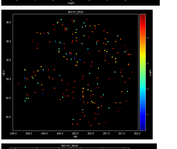

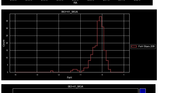

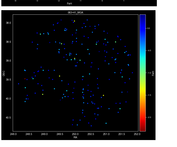

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BEHAVE_MCAS

Programmers: ['George']

max_sequence: 119
turnoff: 99
subgoaltr: 20
max_cycles: 40
rnd_points = rnd_fly(np: 71)

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Jan 19
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Mar 31
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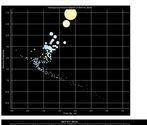

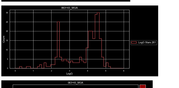

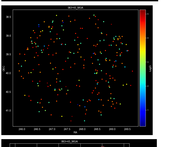

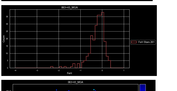

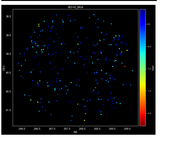

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BEHAVE_MCAS

Programmers: ['George']

max_sequence: 140
turnoff: 99
subgoaltr: 20
max_cycles: 40
rnd_points = rnd_fly(np: 40)

Dec 8
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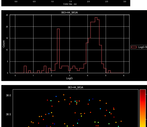

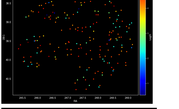

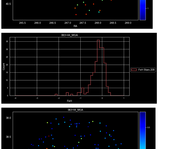

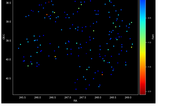

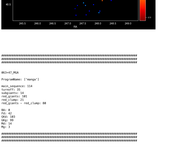

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BEHAVE_MCAS

Programmers: ['George']

max_sequence: 114
turnoff: 99
subgoaltr: 20
max_cycles: 40
rnd_points = rnd_fly(np: 88

Dec 8
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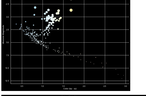
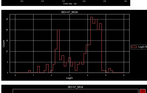
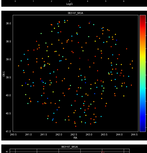
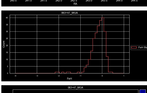
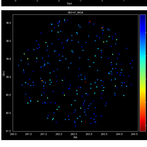


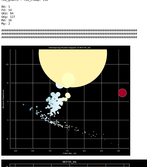

Log2 Rate (Hz)

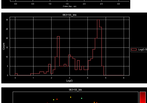


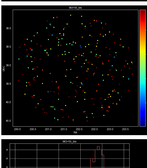

Log2 Rate (Hz)

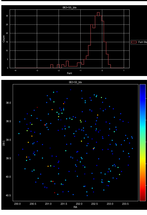


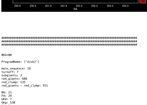
Log2 Rate (Hz)

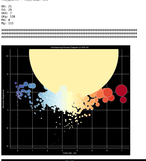


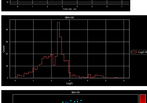

Log2 Rate (Hz)

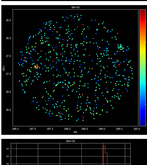


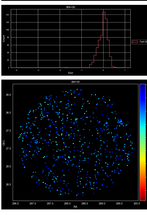



Log2 Rate (Hz)

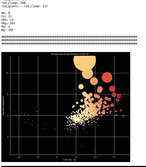


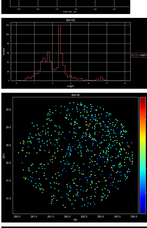

Log2 Rate (Hz)

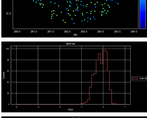


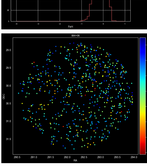


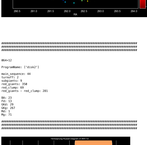
Log2 Rate (Hz)






Log2 Rate (Hz)





Log2 Rate (Hz)

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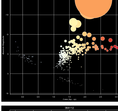

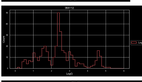

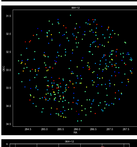

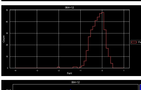

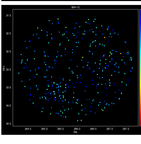

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dbin01_PL0

Programname: [ hexpr ]

main_separator: 01
mainbin: 0
subpanel: 0
subpanelbin: 0
red_panel: 00
red_panel: 0 red_filter: 01

Nx: 1
Ny: 1
Mx: 0
My: 0
Mz: 0
Nz: 0
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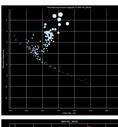

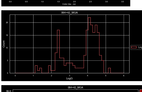

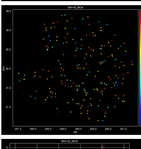

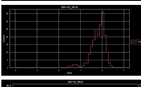

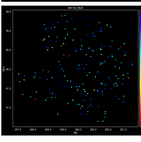

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dbin02_PL0

Programname: [ hexpr ]

main_separator: 117
mainbin: 0
subpanel: 0
subpanelbin: 0
red_panel: 00
red_panel: 0 red_filter: 00

Nx: 1
Ny: 1
Mx: 0
My: 0
Mz: 0
Nz: 0
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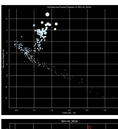
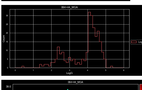
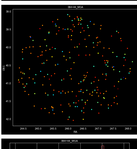
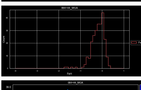
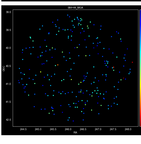
```











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dbin-00

Programname: [ ticalc2 ]

main_separator: 00
mainbin: 0
subpanel: 0
red_panel: 00
red_panel: 0 red_filter: 002

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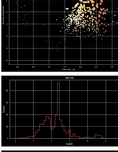
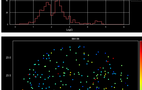
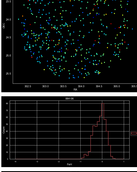
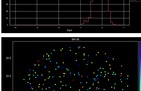
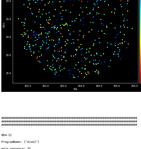
```











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dbin-02

Programname: [ ticalc2 ]

main_separator: 07
mainbin: 0
subpanel: 0
red_panel: 00
red_panel: 0 red_filter: 170

Nx: 0
Ny: 0
Mx: 0
My: 0
Mz: 170
Nz: 0
==================================================
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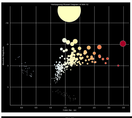
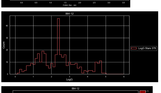
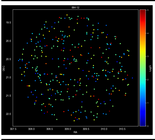
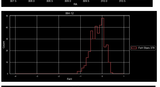
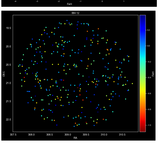
```











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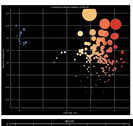
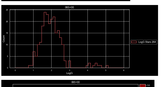
BD-08

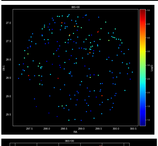
Programmes: ['uvc']

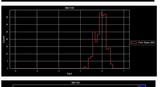
main_sequence: 0
turboFit: 0
sequence: 0
red_giants: 255
main_sequence: 0
red_giants - red_clump: 152

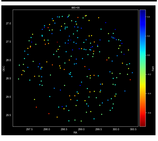
Ha: 0
Hb: 0
Hdelta: 0
Hgamma: 0
Na: 0
```











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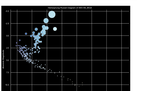
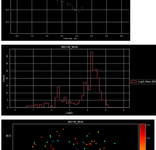
BD+40_MLA

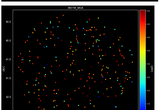
Programmes: ['energy']

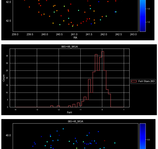
main_sequence: 122
turboFit: 0
sequence: 0
red_giants: 35
main_sequence: 0
red_giants - red_clump: 62

Ha: 0
Hb: 0
Hdelta: 0
Hgamma: 0
Na: 0
```









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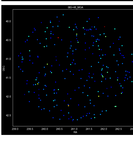
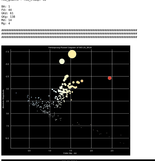
BD-10_MLA

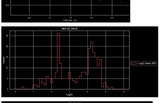
Programmes: ['energy']

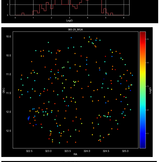
main_sequence: 17
turboFit: 0
sequence: 0
red_giants: 35
main_sequence: 0
red_giants - red_clump: 98

Ha: 0
Hb: 0
Hdelta: 0
Hgamma: 0
Na: 0
```









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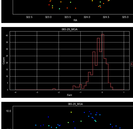
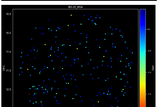
BD+42_MLA

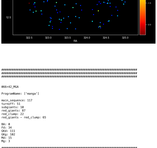
Programmes: ['energy']

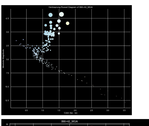
main_sequence: 117
turboFit: 0
sequence: 0
red_giants: 97
main_sequence: 0
red_giants - red_clump: 65

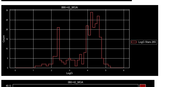
Ha: 0
Hb: 0
Hdelta: 0
Hgamma: 0
Na: 0
```

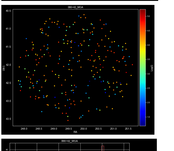


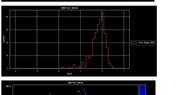


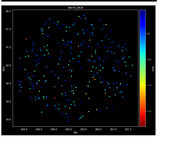










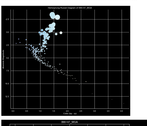


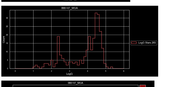
```
BB6-07_MLM

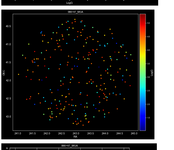
Programmer: ['mengo']

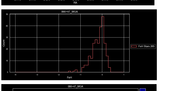
mask_separator: 128
hotpixel: 0.5
subpixels: 20
mask_pixel: 0
cnt_limit: 10
cnt_points = cnt_clump: 68

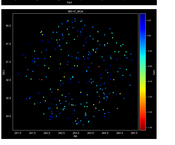
Dec: 0
Ra: 0
Obs: 0.0
Mag: 20.0
Dec: 0.0
Ra: 0
```









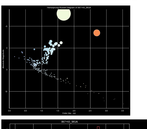


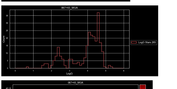
```
BB7-01_MLM

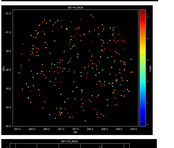
Programmer: ['mengo']

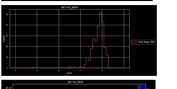
mask_separator: 115
hotpixel: 0.5
subpixels: 20
mask_pixel: 0
cnt_limit: 10
cnt_points = cnt_clump: 64

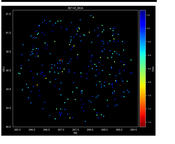
Dec: 0
Ra: 0
Obs: 0.0
Mag: 20.0
Dec: 0.0
Ra: 0
```









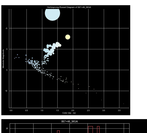


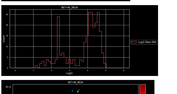
```
BC7-01_MLM

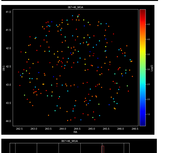
Programmer: ['mengo']

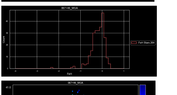
mask_separator: 113
hotpixel: 0.5
subpixels: 20
mask_pixel: 0
cnt_limit: 10
cnt_points = cnt_clump: 54

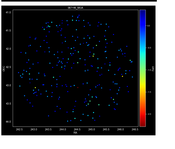
Dec: 0
Ra: 0
Obs: 0.0
Mag: 20.0
Dec: 0.0
Ra: 0
```











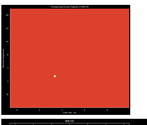
```
BD8-08

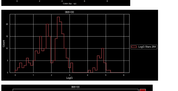
Programmer: ['mengo']

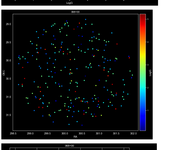
mask_separator: 32
hotpixel: 0.5
subpixels: 4
mask_pixel: 0
cnt_limit: 10
cnt_points = cnt_clump: 155

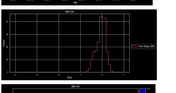
Dec: 0
Ra: 0
Obs: 0.0
Mag: 20.0
```

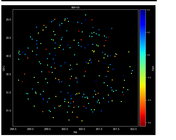
Mg: 30
##
##











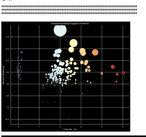
##
##

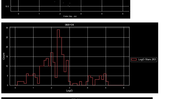
BERIL

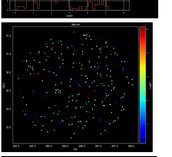
Programmer: ['apogee']

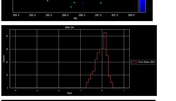
main_sequence: 25
hydro: 0
hydro_type: 0
num_gamma: 128
num_proton: 0
num_pion: 0
num_electron: 179

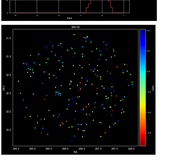
Mn: 30
Mg: 24
Ne: 10
Mgn: 114
Mg: 6
Mn: 6
##
##











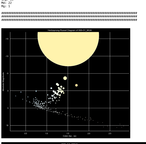
##
##

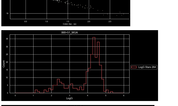
BERIL_MGA

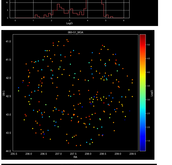
Programmer: ['mengr']

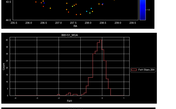
main_sequence: 107
hydro: 0
hydro_type: 0
num_gamma: 0
num_proton: 0
num_pion: 0
num_electron: 43

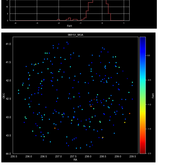
Mn: 8
Mg: 30
Mn: 30
Mg: 22
Mn: 6
Mg: 6
##
##











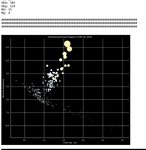
##
##

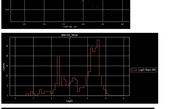
BERIL_MGA

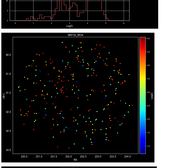
Programmer: ['mengr']

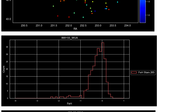
main_sequence: 100
hydro: 0
hydro_type: 0
num_gamma: 13
num_proton: 0
num_pion: 0
num_electron: 91

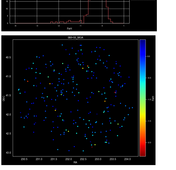
Mn: 8
Mg: 30
Mn: 30
Mg: 114
Mn: 6
Mg: 6
##
##











##
##

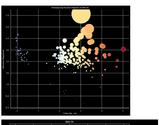
BERIL

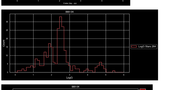
Programmer: ['apogee']

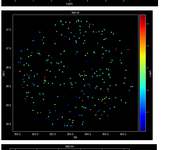
main_sequence: 31
hydro: 0
hydro_type: 0
num_gamma: 208
num_proton: 0
num_pion: 0
num_electron: 104

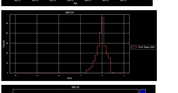
DEC: 0
ra: 0.00
Mag: 8
Mg: 8

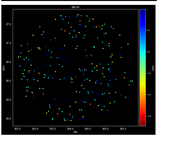
==========











==========

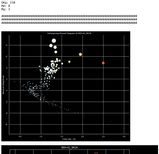
BD0+02_MLA

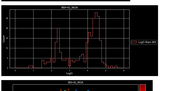
Programmer: ['George']

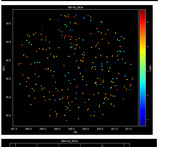
main_sequence: 112
subgiants: 0
redgiants: 32
total_points: 144
red_points: 26
red_points / tot_points: 18

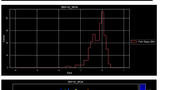
Dec: 0
DEC: 0
ra: 0.00
Mag: 8.04
Mg: 8.04
Mg: 8

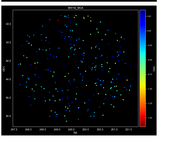
==========











==========

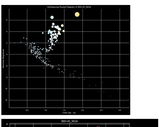
BD0+05_MLA

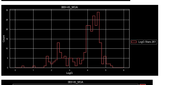
Programmer: ['George']

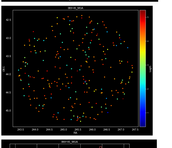
main_sequence: 112
subgiants: 0
redgiants: 32
total_points: 144
red_points: 26
red_points / tot_points: 05

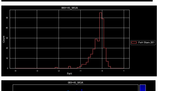
Dec: 0
DEC: 0
ra: 0.00
Mag: 8
Mg: 8

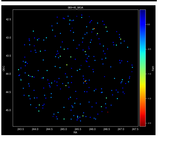
==========











==========

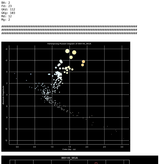
BD0+08_MLA

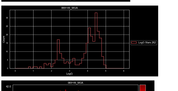
Programmer: ['George']

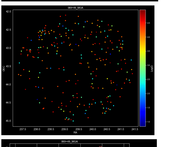
main_sequence: 115
subgiants: 0
redgiants: 30
total_points: 145
red_points: 26
red_points / tot_points: 09

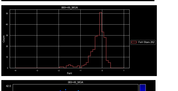
Dec: 0
DEC: 0
ra: 0.00
Mag: 8.12
Mg: 8.12
Mg: 8

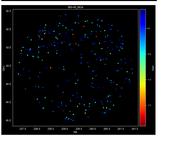
==========











==========

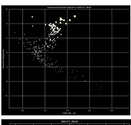
BD0+07_MLA

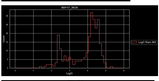
Programmer: ['George']

main_sequence: 120
subgiants: 0
redgiants: 32
total_points: 152
red_points: 26
red_points / tot_points: 08

Max: 0
Min: 0
Max: 17
Min: 17
Max: 0
Min: 0

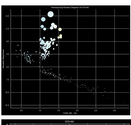
==========

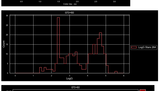


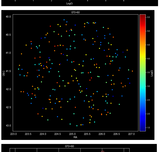

Cluster Count
Cluster Size
Cluster Count
Cluster Size
Cluster Count
Cluster Size

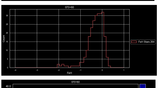
red_points: 248
blue_points: 0
red_points - red_clump: 111

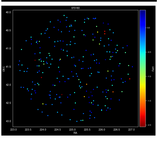
Dec: 0
Ra: 0
dec: 0
ra: 0
Mu: 0
Mv: 0
Mw: 0









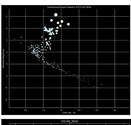


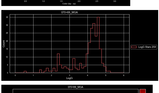
0700-05_MLA

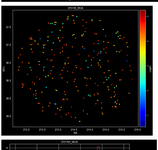
Programmes: ['merge']

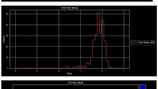
mass_separator: 100
bulge?: 0
subgiants: 0
red_points: 0
red_clump: 0
red_points - red_clump: 19

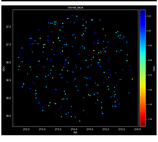
Dec: 0
Ra: 0
dec: 0
ra: 0
Mu: 0
Mv: 0
Mw: 0









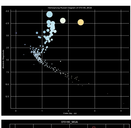


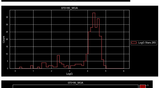
0700-08_MLA

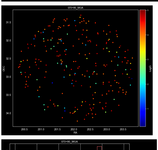
Programmes: ['merge']

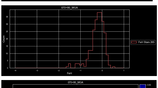
mass_separator: 101
bulge?: 0
subgiants: 0
red_points: 0
red_clump: 0
red_points - red_clump: 52

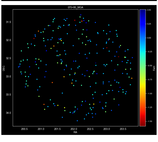
Dec: 0
Ra: 0
dec: 0
ra: 0
Mu: 0
Mv: 0
Mw: 0









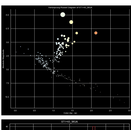


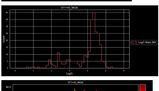
0710-05_MLA

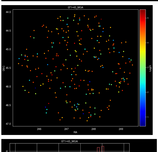
Programmes: ['merge']

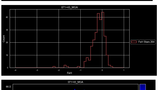
mass_separator: 102
bulge?: 0
subgiants: 0
red_points: 0
red_clump: 0
red_points - red_clump: 63

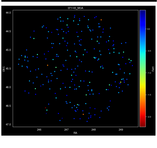
Dec: 0
Ra: 0
dec: 0
ra: 0
Mu: 0
Mv: 0
Mw: 0









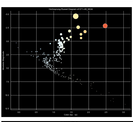


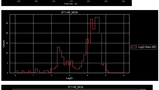
0710-08_MLA

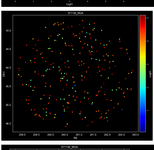
Programmes: ['merge']

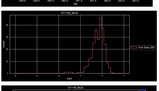
```
main_subsamples: 1139
hostpatch: 0
backpatches: 42
subpatches: 10
read_patches: 52
read_events = read_files: 43

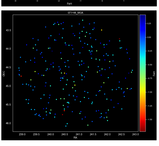
Nev: 2
Ntr: 10
Npar: 18
Nhyp: 10
Ncut: 27
Ng: 0
```









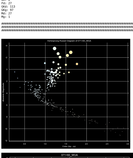


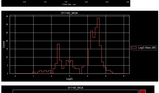

```
BTCUD_MUA

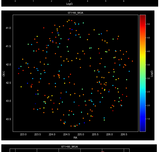
Programmes: ['energy']

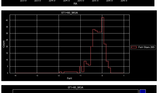
main_subsamples: 1139
hostpatch: 0
backpatches: 42
subpatches: 10
read_patches: 52
read_events = read_files: 72

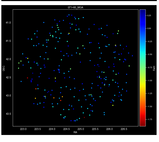
Nev: 6
Ntr: 10
Npar: 17
Nhyp: 10
Ncut: 27
Ng: 0
```









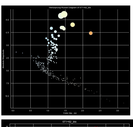


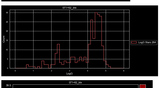

```
BTCUD_Pro

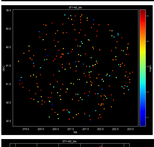
Programmes: ['hack_bry']

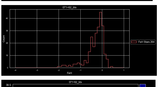
main_subsamples: 1139
hostpatch: 0
backpatches: 10
subpatches: 10
read_patches: 52
read_events = read_files: 72

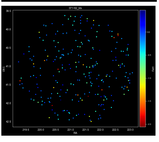
Nev: 2
Ntr: 10
Npar: 17
Nhyp: 10
Ncut: 27
Ng: 0
```









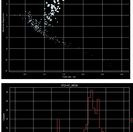


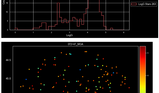

```
BTCUD_MUA

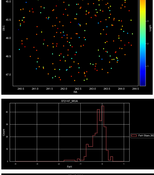
Programmes: ['energy']

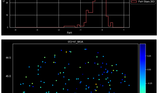
main_subsamples: 1139
hostpatch: 0
backpatches: 10
subpatches: 10
read_patches: 52
read_events = read_files: 72

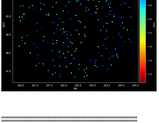
Nev: 6
Ntr: 10
Npar: 184
Nhyp: 10
Ncut: 0
```









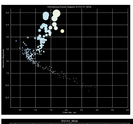


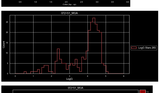
```
BTCUS_MLA

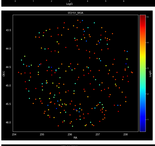
Programmer: ['Sanjar']

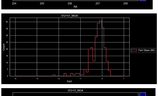
main_separator: 113
hysteresis: 36
subgraph: 0
sub_separator: 40
sub_limit: 20
red_points = red_clump: 54

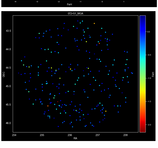
Bn: 0
Sn: 0
Dn: 114
Mn: 0
Wn: 0
Mp: 0
```









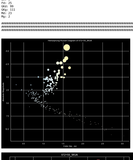


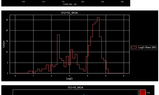

```
BTCUS_MLA

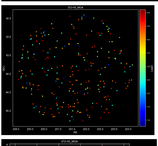
Programmer: ['Sanjar']

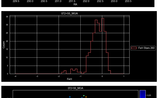
main_separator: 118
hysteresis: 0
subgraph: 0
sub_separator: 20
sub_limit: 20
red_points = red_clump: 50

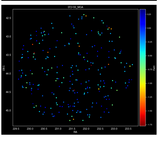
Bn: 0
Sn: 0
Dn: 0
Mn: 21
Wn: 21
Mp: 0
```









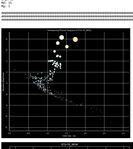


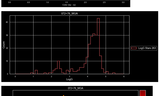

```
BTCUS_MLA

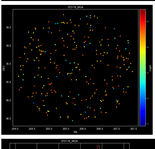
Programmer: ['Sanjar']

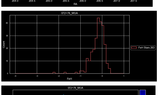
main_separator: 145
hysteresis: 0
subgraph: 0
sub_separator: 36
sub_limit: 20
red_points = red_clump: 44

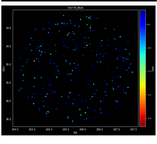
Bn: 0
Sn: 0
Dn: 19
Mn: 19
Wn: 0
Mp: 0
```









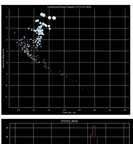


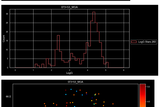

```
BTCUS_MLA

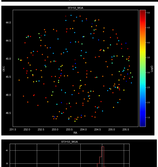
Programmer: ['Sanjar']

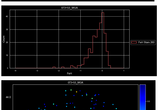
main_separator: 170
hysteresis: 0
subgraph: 0
sub_separator: 36
sub_limit: 20
red_points = red_clump: 71

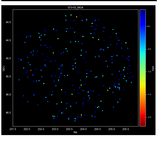
Bn: 0
Sn: 0
Dn: 0
Mn: 19
Wn: 19
Mp: 0
```









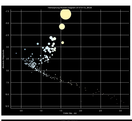


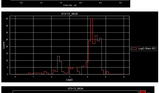
```
##################################################
GIMIC_MAA

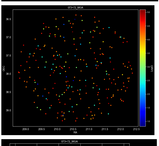
Programmer: ['Ganga']

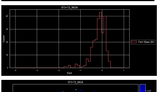
main_separator: 110
turnoff: 67
subgroups: [1]
sub_groups: 30
red_giants = red_clump: 56

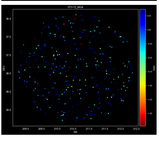
Mo: 8
Zo: 0.02
Age: 13
Mg: 10
Mu: 0
##################################################
```









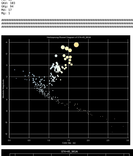


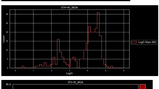

```
##################################################
GIMIC_MAA

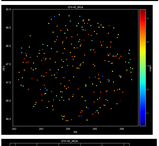
Programmer: ['Ganga']

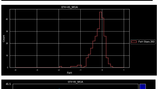
main_separator: 112
turnoff: 67
subgroups: [1]
sub_groups: 30
red_giants = red_clump: 62

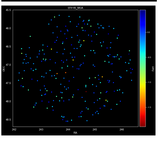
Mo: 8
Zo: 0.02
Age: 200
Mg: 10
Mu: 0
##################################################
```









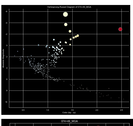


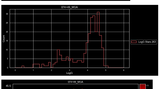

```
##################################################
GIMIC_MAA

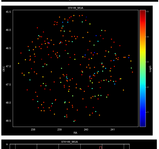
Programmer: ['Ganga']

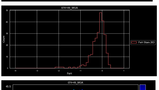
main_separator: 112
turnoff: 67
subgroups: [1]
sub_groups: 30
red_giants = red_clump: 63

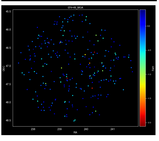
Mo: 8
Zo: 0.02
Age: 1.5
Mg: 10
Mu: 0
##################################################
```









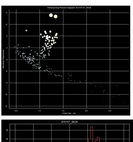


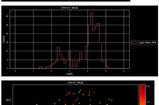

```
##################################################
GIMIC_MAA

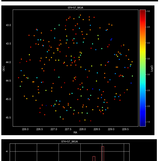
Programmer: ['Ganga']

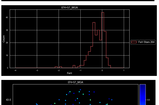
main_separator: 110
turnoff: 67
subgroups: [1]
sub_groups: 30
red_giants = red_clump: 67

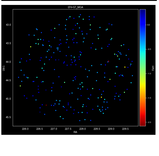
Mo: 8
Zo: 0.02
Age: 10
Mg: 10
Mu: 0
##################################################
```









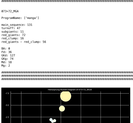



```
##################################################
GIMIC_MAA

Programmer: ['Ganga']

main_separator: 110
turnoff: 67
subgroups: [1]
sub_groups: 30
red_giants = red_clump: 67

Mo: 8
Zo: 0.02
Age: 100
Mg: 10
Mu: 0
##################################################
```



****

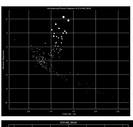
07V08_PGA

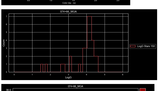
Programmer: Jianqi Li

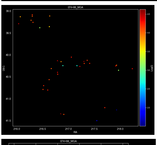
mass_separator: 10
burnoff: 0
subpeaks: 0
rmd_peaks: 27
rmd_points: 125
rmd_time: 0
rmd_points = rmd_time: 125

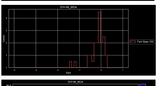
Dec: 0
Jan: 0
Feb: 0
Mar: 0
Apr: 0
May: 0

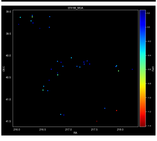
****











****

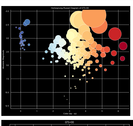
07V08

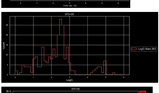
Programmer: Jianqi Li

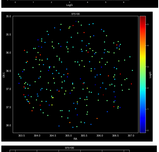
mass_separator: 10
burnoff: 0
subpeaks: 0
rmd_peaks: 27
rmd_points: 125
rmd_time: 0
rmd_points = rmd_time: 125

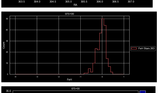
Dec: 0
Jan: 0
Feb: 0
Mar: 174
Apr: 0
May: 0

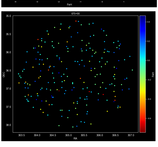
****











****

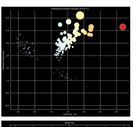
07V10

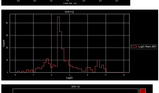
Programmer: Jianqi Li

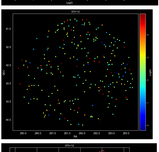
mass_separator: 10
burnoff: 0
subpeaks: 0
rmd_peaks: 27
rmd_points: 140
rmd_time: 0
rmd_points = rmd_time: 140

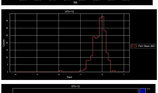
Dec: 0
Jan: 0
Feb: 0
Mar: 0
Apr: 0
May: 0

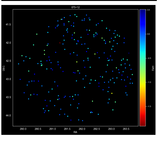
****











****

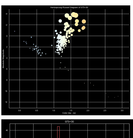
07V10

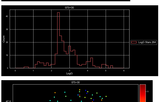
Programmer: Jianqi Li

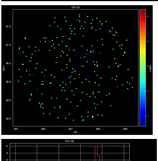
mass_separator: 10
burnoff: 0
subpeaks: 0
rmd_peaks: 27
rmd_points: 173
rmd_time: 0
rmd_points = rmd_time: 173

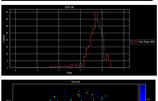
Dec: 0
Jan: 0
Feb: 0
Mar: 0
Apr: 0
May: 0

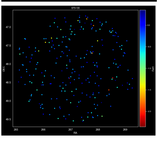
****











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##################################################
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BTS=35

Programmname: I'ampar'I

main_separator: 0
hypothesis: 0
subpoints: 35
real_points: 28
rand_points: 7
real_time: real_time: 505

Min: 0
Max: 35
Mean: 0
Mean: 14.4
Min: 0
Max: 28

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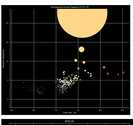
```


Sonnenbahn und Ereignisse
Sonnenbahn
Ereignisse
Sonne
Erde
Mond
Sonnenbahn
Ereignisse
Sonne
Erde
Mond
Sonne
Erde
Mond
Sonnenbahn
Ereignisse
Sonne
Erde
Mond
Sonnenbahn
Ereignisse
Sonne
Erde
Mond
Sonnenbahn
Ereignisse

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

67C-LV

Programmer: ['Jasper']

main_separator: 20
subsep: 10
subsubsep: 5
num_planets: 10
num_moons: 40
num_planets + num_moons: 102

Dec: 0
Inc: 90
Dist: 24
Mag: 8
Mag: 0

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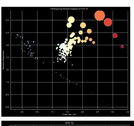
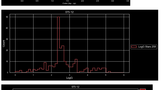
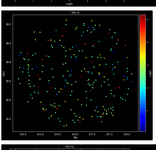
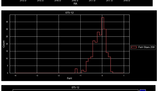
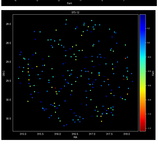
```









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##########################################################
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67C-SW

Programmer: ['Kelly']

main_separator: 185
subsep: 92
subsubsep: 46
num_planets: 10
num_moons: 36
num_planets + num_moons: 43

Dec: 0
Inc: 90
Dist: 30
Mag: 8
Mag: 0

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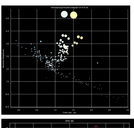
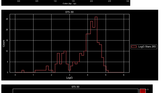
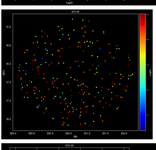
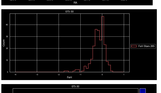
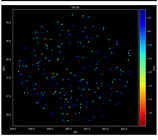
```









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67C-SE,MLA

Programmer: ['George']

main_separator: 75
subsep: 37
subsubsep: 18
num_planets: 100
num_moons: 40
num_planets + num_moons: 77

Dec: 0
Inc: 90
Dist: 24
Mag: 8
Mag: 0

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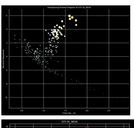
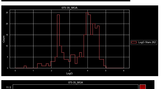
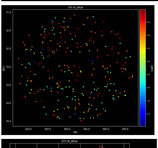
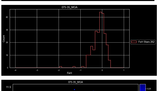
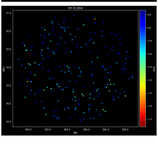
##########################################################
```









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##########################################################
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67C-VS

Programmer: ['Jasper']

main_separator: 40
subsep: 20
subsubsep: 10
num_planets: 100
num_moons: 40
num_planets + num_moons: 149

Dec: 0
Inc: 90
Dist: 24
Mag: 8
Mag: 0

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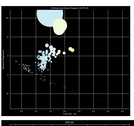
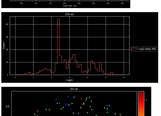
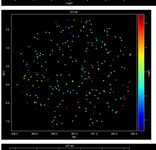
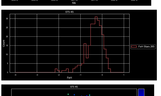
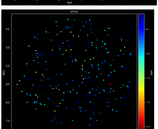
```











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07140_MLA

Programname: ['merge']

main_separator: 128
turnoff: 50
subpoints: 31
rot_points: 40
rot_points + rot_clump: 50

Ch: 5
Ch: 6
Ch: 7
Ch: 8
Ch: 9
Ch: 10
Ch: 11
Ch: 12
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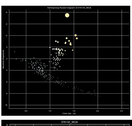
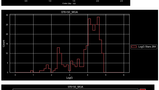
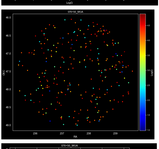
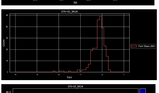
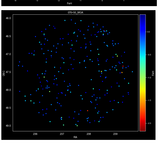
```









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07140_MLA

Programname: ['merge']

main_separator: 128
turnoff: 50
subpoints: 31
rot_points: 40
rot_points + rot_clump: 51

Ch: 5
Ch: 6
Ch: 7
Ch: 8
Ch: 9
Ch: 10
Ch: 11
Ch: 12
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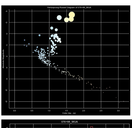
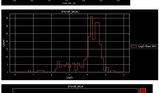
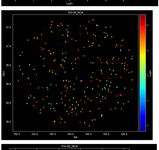
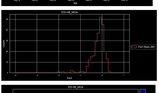
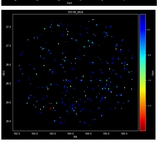
********************************************************
```









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07140_MLA

Programname: ['merge']

main_separator: 111
turnoff: 50
subpoints: 31
rot_points: 40
rot_points + rot_clump: 50

Ch: 5
Ch: 6
Ch: 7
Ch: 8
Ch: 9
Ch: 10
Ch: 11
Ch: 12
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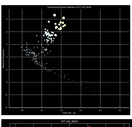
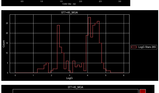
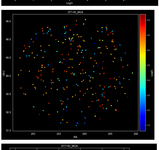
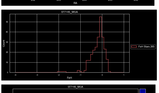
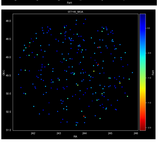
```









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07140_MLA

Programname: ['merge']

main_separator: 114
turnoff: 50
subpoints: 31
rot_points: 40
rot_points + rot_clump: 48

Ch: 5
Ch: 6
Ch: 7
Ch: 8
Ch: 9
Ch: 10
Ch: 11
Ch: 12
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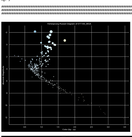
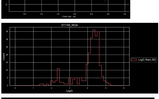
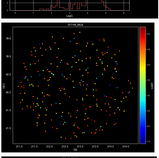
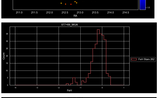
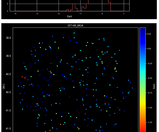
```











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==================================================
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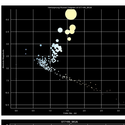
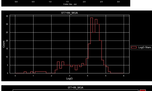
07:00_MJD

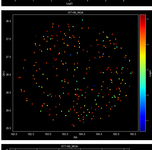
Programmer: ['George']

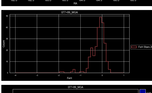
mass_separator: 100
burnoff: 40
subgiants: 12
rad_grades: 40
rad_grades = rad_clump: 54

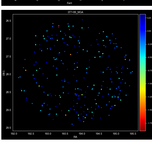
Nbr: 8
Ubr: 19
Mbr: 19
Lbr: 19
Mu: 38
Mu: 8
==================================================
==================================================
```









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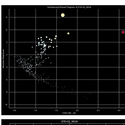
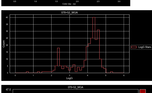
07:01_MJD

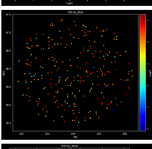
Programmer: ['George']

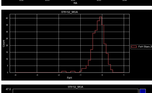
mass_separator: 100
burnoff: 40
subgiants: 12
rad_grades: 40
rad_grades = rad_clump: 52

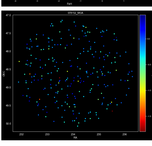
Nbr: 8
Ubr: 19
Mbr: 19
Lbr: 19
Mu: 38
Mu: 8
==================================================
==================================================
```









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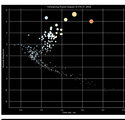
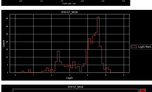
07:02_MJD

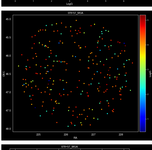
Programmer: ['George']

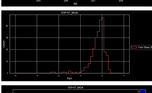
mass_separator: 100
burnoff: 40
subgiants: 12
rad_grades: 40
rad_grades = rad_clump: 43

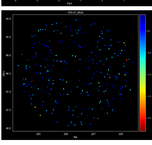
Nbr: 8
Ubr: 19
Mbr: 19
Lbr: 19
Mu: 38
Mu: 8
==================================================
==================================================
```









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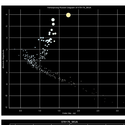
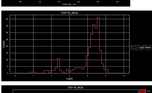
07:03_MJD

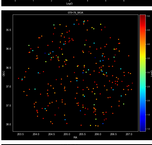
Programmer: ['George']

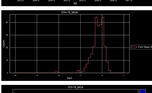
mass_separator: 100
burnoff: 40
subgiants: 12
rad_grades: 40
rad_grades = rad_clump: 43

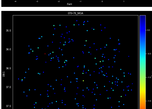
Nbr: 8
Ubr: 19
Mbr: 19
Lbr: 19
Mu: 38
Mu: 8
==================================================
==================================================
```











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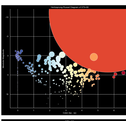
67b-00

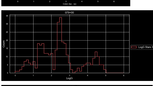
Prog-subdomes: ['ulcu2']

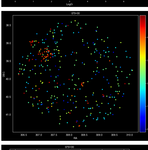
main_separator: 48
subsplits: 0
subparts: 0
rad_points: 28
rad_step: 0.5
rad_parts: rad_step/sec: 257

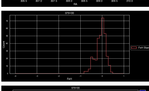
Dec: 0
Ra: 20
Mag: 23
Mag: 23
Ra: 0
Dec: 0

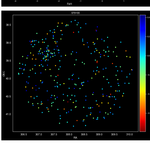
==========











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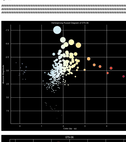
67b-00

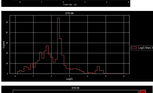
Prog-subdomes: ['ulcu2']

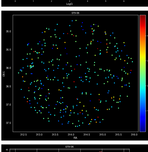
main_separator: 48
subsplits: 0
subparts: 0
rad_points: 28
rad_step: 0.5
rad_parts: rad_step/sec: 293

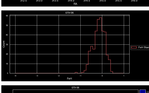
Dec: 0
Ra: 20
Mag: 23
Mag: 23
Ra: 0
Dec: 0

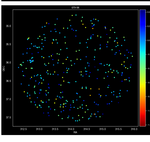
==========











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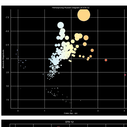
67b-12

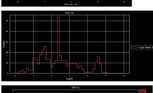
Prog-subdomes: ['ulcu2']

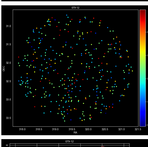
main_separator: 40
subsplits: 0
subparts: 0
rad_points: 28
rad_step: 0.5
rad_parts: rad_step/sec: 372

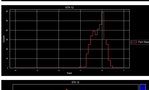
Dec: 0
Ra: 20
Mag: 23
Mag: 23
Ra: 0
Dec: 40

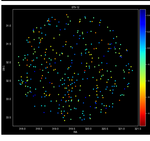
==========











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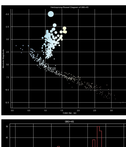
4b8-00

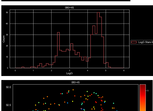
Prog-subdomes: ['apogee', 'kelu']

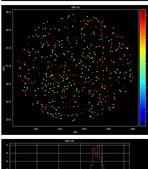
main_separator: 128
subsplits: 32
subparts: 128
rad_points: 256
rad_step: 0.5
rad_parts: rad_step/sec: 333

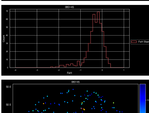
Dec: 0
Ra: 20
Mag: 252
Mag: 252
Ra: 0
Dec: 0

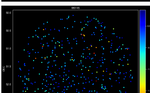
==========











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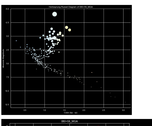
BRM-08_PLA

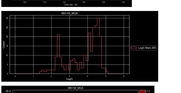
Prog=pdbmon ['energy']

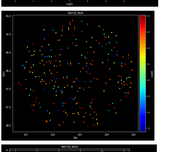
main_separation: 127
height: 0.4
main_gamma: 30
sub_gamma: 30
sub_phase: 90
sub_gamma - sub_flimp: 74

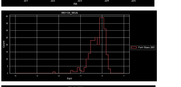
Det: 0
Det: 1
Det: 2
Det: 3
Det: 4
Det: 5
Det: 6

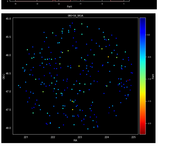
****











****

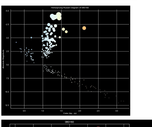
BRM-08

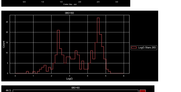
Prog=pdbmon ['energy']

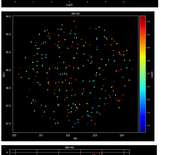
main_separation: 180
height: 0.4
main_gamma: 0
sub_gamma: 0
sub_phase: 90
sub_gamma - sub_flimp: 117

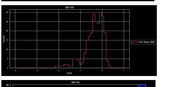
Det: 0
Det: 1
Det: 2
Det: 3
Det: 4
Det: 5
Det: 6

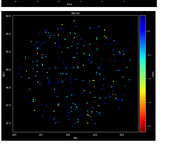
****











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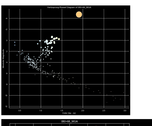
BRM-08_PLA

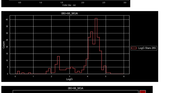
Prog=pdbmon ['energy']

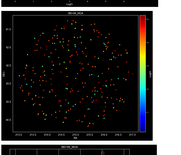
main_separation: 127
height: 0.4
main_gamma: 30
sub_gamma: 30
sub_phase: 90
sub_gamma - sub_flimp: 54

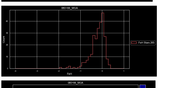
Det: 0
Det: 1
Det: 2
Det: 3
Det: 4
Det: 5
Det: 6

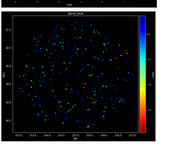
****











****

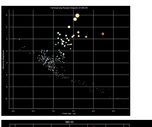
BRM-05

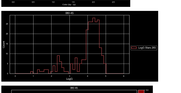
Prog=pdbmon ['halo']

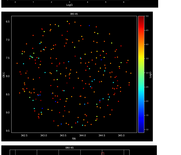
main_separation: 180
height: 0.4
main_gamma: 0
sub_gamma: 0
sub_phase: 90
sub_gamma - sub_flimp: 53

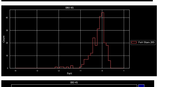
Det: 0
Det: 1
Det: 2
Det: 3
Det: 4
Det: 5
Det: 6

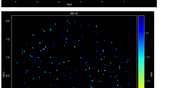
****

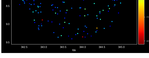












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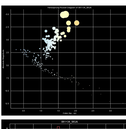
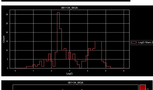
BEC15_PCA

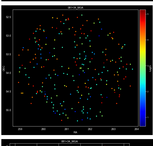
Programmer: ['Kenjar']

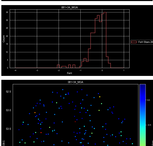
main_separator: 25
Sample: 20
sample_size: 0.8
num_points: 10
num_clusters: 4
num_points = num_clusters: 113

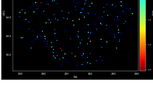
Dim: 5
Dim: 10
Dim: 15
Dim: 20
Dim: 25

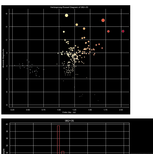












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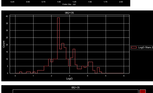
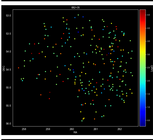
BEC15

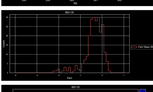
Programmer: ['Kenjar']

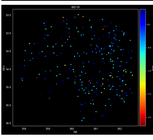
main_separator: 50
Sample: 20
sample_size: 0.8
num_points: 10
num_clusters: 4
num_points = num_clusters: 175

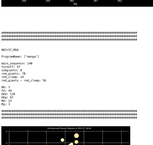
Dim: 5
Dim: 10
Dim: 15
Dim: 20
Dim: 25











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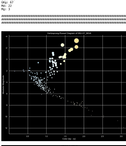
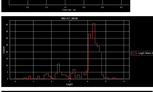
BEC15_PCA

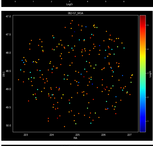
Programmer: ['Kenjar']

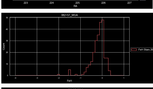
main_separator: 100
Sample: 20
sample_size: 0.8
num_points: 10
num_clusters: 4
num_points = num_clusters: 50

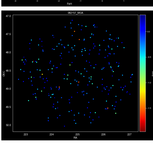
Dim: 5
Dim: 10
Dim: 15
Dim: 20
Dim: 25











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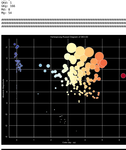
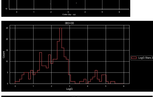
BEC100

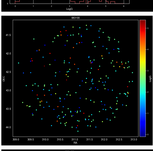
Programmer: ['Kenjar']

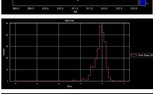
main_separator: 25
Sample: 20
sample_size: 0.8
num_points: 10
num_clusters: 4
num_points = num_clusters: 100

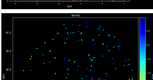
Dim: 5
Dim: 10
Dim: 15
Dim: 20
Dim: 25

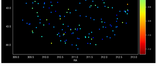












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BEDIN0

Programmer: ['spaque']

mass_separation: 10
burnoff: 0
subgrain: 0
subgrid: 0
rad_grain: 0.01
rad_grain = rad_clump: 100

Mo: 10
Ms: 0.1
Mdot: 0
Mdot_d: 0
Rc: 0
Rd: 0.1
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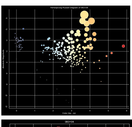

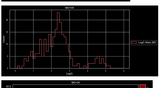

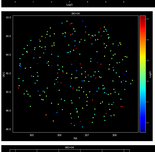

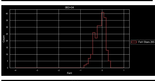

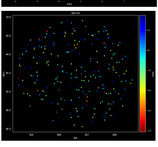


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BEDIN1_MLA

Programmer: ['spaque']

mass_separation: 100
burnoff: 0
subgrain: 0
subgrid: 0
rad_grain: 0.1
rad_grain = rad_clump: 42

Mo: 0
Ms: 0.1
Mdot: 0.01
Mdot_d: 0
Rc: 0
Rd: 0.1
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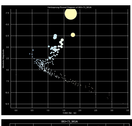
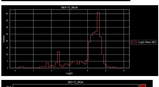
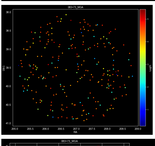
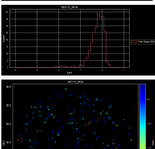
==========
```







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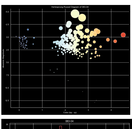
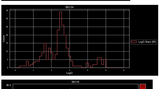
BEDIN2

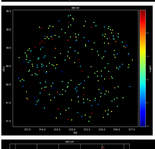
Programmer: ['spaque']

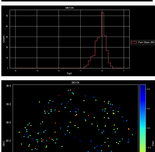
mass_separation: 10
burnoff: 0
subgrain: 0.01
subgrid: 0.01
rad_grain: 0.01
rad_grain = rad_clump: 100

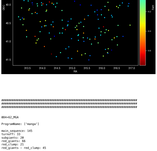
Mo: 10
Ms: 0.1
Mdot: 0
Mdot_d: 0
Rc: 0
Rd: 0.1
==========
==========
```









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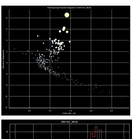
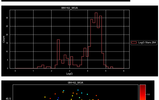
BEDIN2_MLA

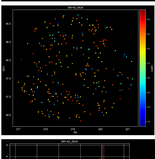
Programmer: ['spaque']

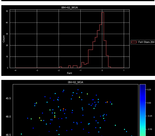
mass_separation: 100
burnoff: 0.01
subgrain: 0
subgrid: 0.01
rad_grain: 0.1
rad_grain = rad_clump: 42

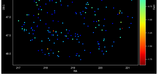
Mo: 0
Ms: 0.1
Mdot: 0.01
Mdot_d: 0.01
Rc: 0
Rd: 0.1
==========
==========
```











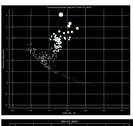
```
##################################################
##################################################

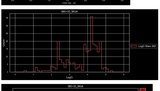
BOX=25_MLA

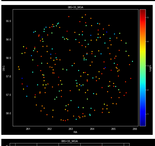
Prog=pdbmaec ['mango']

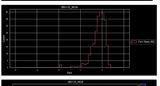
mass_separator: 90
hydrophil: 30
subparts: 30
tot_points: 300
mass_cut: 0
red_points = red_clump: 79

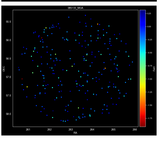
Box: 0
Dir: 0
Step: 25
Mag: 100
Max: 25
Min: 0
##################################################
##################################################
```









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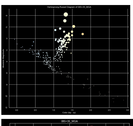
##################################################
##################################################

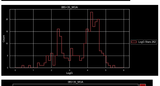
BOX=25_MLA

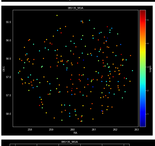
Prog=pdbmaec ['mango']

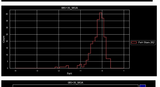
mass_separator: 90
hydrophil: 30
subparts: 30
tot_points: 300
mass_cut: 0
red_points = red_clump: 92

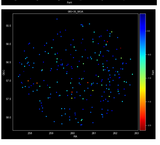
Box: 0
Dir: 0
Step: 25
Mag: 100
Max: 25
Min: 0
##################################################
##################################################
```









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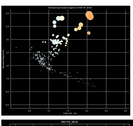
##################################################
##################################################

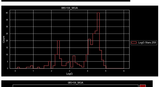
BOX=25_MLA

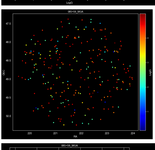
Prog=pdbmaec ['mango']

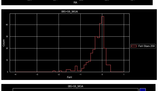
mass_separator: 120
hydrophil: 30
subparts: 3
tot_points: 300
mass_cut: 0
red_points = red_clump: 43

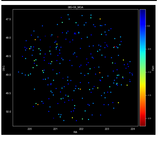
Box: 0
Dir: 0
Step: 25
Mag: 100
Max: 25
Min: 0
##################################################
##################################################
```











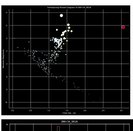

```
##################################################
##################################################

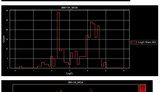
BOX=25_MLA

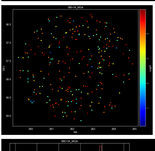
Prog=pdbmaec ['mango']

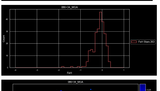
mass_separator: 90
hydrophil: 30
subparts: 30
tot_points: 300
mass_cut: 0
red_points = red_clump: 45

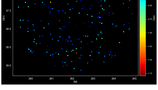
Box: 0
Dir: 0
Step: 25
Mag: 100
Max: 25
Min: 0
##################################################
##################################################
```









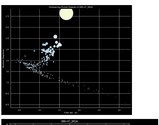


BB4H2_PGA

Prog=pGadget [-]energy[-]

main_separation: 129
subgroupID: 0
subgroupNo: 0
rad_quantile: 0.5
rad_frac: 1
rad_frac_cutoff: 0.5
rad_quantile: = rad_frac: 50

Nx: 0
Ny: 0
Nz: 29
Mag: 29
Mag: 29
Mag: 29

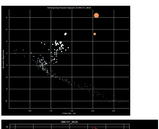


BB4H2_PGA

Prog=pGadget [-]energy[-]

main_separation: 147
subgroupID: 0
subgroupNo: 0
rad_quantile: 0.5
rad_frac: 1
rad_frac_cutoff: = rad_frac: 52

Nx: 0
Ny: 0
Nz: 29
Mag: 29
Mag: 29
Mag: 29

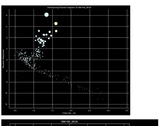


BB4H2_PGA

Prog=pGadget [-]energy[-]

main_separation: 121
subgroupID: 0
subgroupNo: 0
rad_quantile: 0.5
rad_frac: 1
rad_quantile: = rad_frac: 48

Nx: 0
Ny: 0
Nz: 29
Mag: 29
Mag: 29
Mag: 29

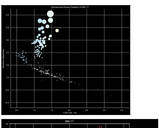


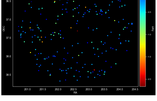
BB4H2

Prog=pGadget [-]epsgas[-]

main_separation: 145
subgroupID: 0
subgroupNo: 0
rad_quantile: 0.5
rad_frac: 1
rad_quantile: = rad_frac: 51

Nx: 0
Ny: 0
Nz: 29
Mag: 29
Mag: 29
Mag: 29





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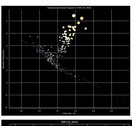
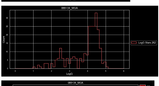
0000-00_MCA

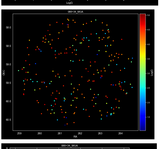
Programkamen: ['mengar']

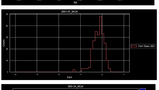
main_separator: 128
hurtighed: 40
hurtighed_ny: 40
rand_gamma: 20
rand_gamma_ny: 20
rand_clamp: 50
rand_gamma + rand_clamp: 68

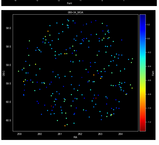
Nr: 0
Nr: 10
Nr: 20
Nr: 30
Nr: 40
```









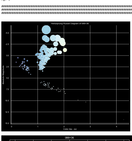


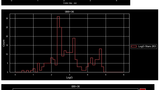

```
0000-00

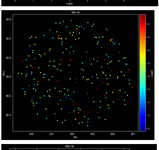
Programkamen: ['mengar']

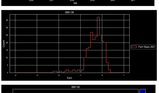
main_separator: 30
hurtighed: 40
hurtighed_ny: 40
rand_gamma: 20
rand_gamma_ny: 20
rand_clamp: 50
rand_gamma + rand_clamp: 105

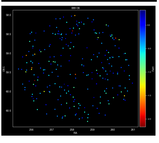
Nr: 0
Nr: 10
Nr: 20
Nr: 30
Nr: 40
```









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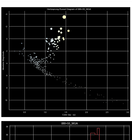
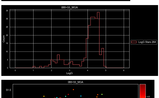
0000-00_MCA

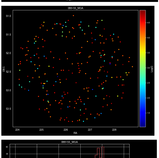
Programkamen: ['mengar']

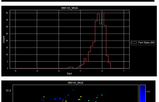
main_separator: 192
hurtighed: 40
hurtighed_ny: 40
rand_gamma: 20
rand_gamma_ny: 20
rand_clamp: 50
rand_gamma + rand_clamp: 58

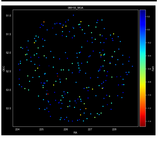
Nr: 0
Nr: 10
Nr: 20
Nr: 30
Nr: 40
```









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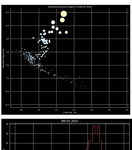
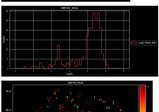
0000-00_MCA

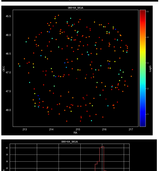
Programkamen: ['mengar']

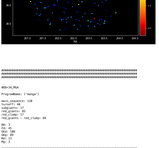
main_separator: 125
hurtighed: 40
hurtighed_ny: 40
rand_gamma: 20
rand_gamma_ny: 20
rand_clamp: 50
rand_gamma + rand_clamp: 55

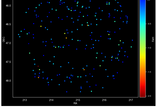
Nr: 0
Nr: 10
Nr: 20
Nr: 30
Nr: 40
```











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0001/N

Programmes: ['apogee']

mcm_separator: 10
hcm_offset: 0
subpixels: 5
nsamples: 10
red_clump: 10
red_clump_dist_clump: 80

Nx: 2
Ny: 2
dRx: 0.0
dRy: 0.0
Rx: 0
Ry: 0
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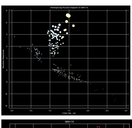

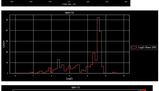

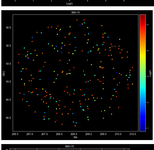

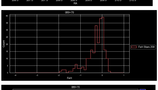

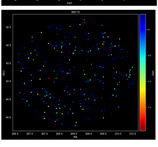


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0006/HB

Programmes: ['apogee', 'apogee-marvels']

mcm_separator: 10
hcm_offset: 0
subpixels: 5
nsamples: 10
red_clump: 10
red_clump_dist_clump: 725

Nx: 2
Ny: 2
dRx: 0.0
dRy: 0.0
Rx: 0
Ry: 0
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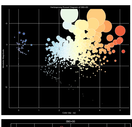

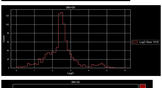

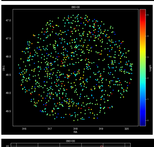

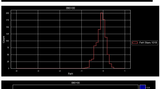

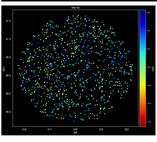


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0006/HB

Programmes: ['apogee', 'apogee-marvels']

mcm_separator: 10
hcm_offset: 0
subpixels: 5
nsamples: 10
red_clump: 10
red_clump_dist_clump: 400

Nx: 2
Ny: 2
dRx: 0.0
dRy: 0.0
Rx: 0
Ry: 0
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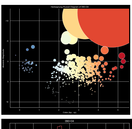
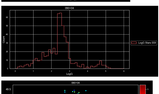
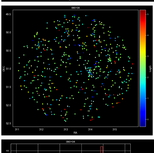
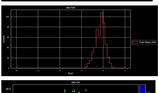
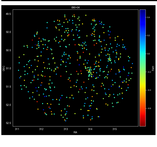
```









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0008/AD

Programmes: ['apogee', 'apogee-marvels']

mcm_separator: 10
hcm_offset: 0
subpixels: 5
nsamples: 10
red_clump: 10
red_clump_dist_clump: 233

Nx: 2
Ny: 2
dRx: 0.0
dRy: 0.0
Rx: 0
Ry: 0
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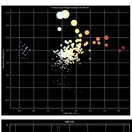
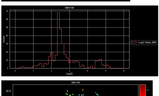
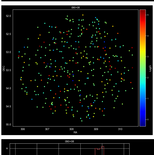
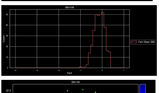
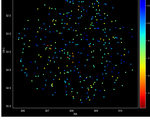
```











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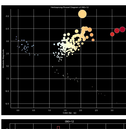
2020-11

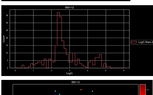
Programmer: ['Jacque']

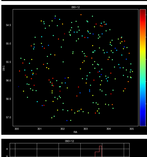
main_sequence: 23
turnoff: 0
subgiants: 0
red_giants: 217
red_clump: 0
red_giants - red_clump: 231

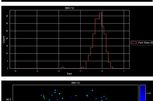
Dec: 20
Ra: 20
Age: 10
Mass: 10
Met: 10
Dist: 10

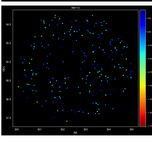
==========











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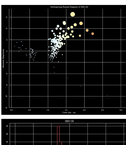
2020-10

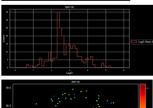
Programmer: ['Jacque']

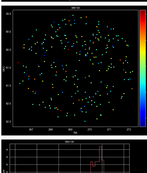
main_sequence: 18
turnoff: 0
subgiants: 0
red_giants: 163
red_clump: 0
red_giants - red_clump: 176

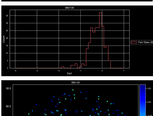
Dec: 8
Ra: 8
Age: 8
Mass: 8
Met: 8
Dist: 8

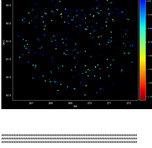
==========











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2020-10_RGB

Programmer: ['George']

main_sequence: 117
turnoff: 0
subgiants: 72
red_giants: 1,000
red_clump: 37
red_giants - red_clump: 63

Dec: 8
Ra: 8
Age: 8
Mass: 208
Met: 8
Dist: 8

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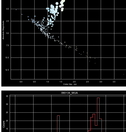

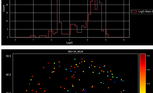

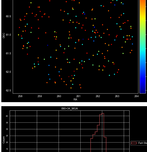

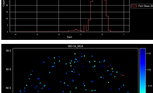

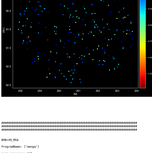

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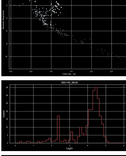
2020-11_RGB

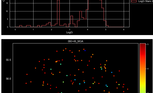
Programmer: ['George']

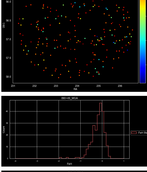
main_sequence: 140
turnoff: 38
subgiants: 0
red_giants: 50
red_clump: 0
red_giants - red_clump: 50

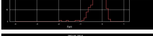
Dec: 8
Ra: 8
Age: 139
Mass: 8
Met: 8
Dist: 8

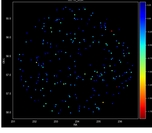
==========











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0040-02_PLA

Group\subhaloes: ['energy']

main_subsamples: 121
halo_id: 0
subhalo_id: 0
halo_pos: [0, 0, 0]
halo_index: 0
halo_mass: 0.0E_11(m): 59

Nx: 0
Ny: 0
Nz: 30
Mx: 30
My: 0
Mz: 0
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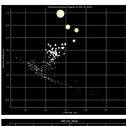
```

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0040-00

Group\subhaloes: ['energy', 'Tw']

main_subsamples: 189
halo_id: 0
subhalo_id: 0
halo_pos: [0, 0, 0]
halo_index: 0
halo_mass: 0.0E_11(m): 129

Nx: 0
Ny: 0
Nz: 30
Mx: 30
My: 0
Mz: 0
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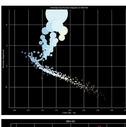
```

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0040-01_PLA

Group\subhaloes: ['energy']

main_subsamples: 128
halo_id: 0
subhalo_id: 0
halo_pos: [0, 0, 0]
halo_index: 0
halo_mass: 0.0E_11(m): 75

Nx: 0
Ny: 0
Nz: 30
Mx: 30
My: 0
Mz: 0
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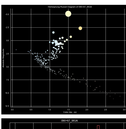
```

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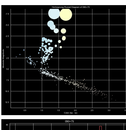
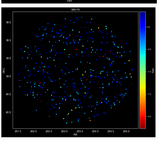
0040-75

Group\subhaloes: ['energy']

main_subsamples: 208
halo_id: 0
subhalo_id: 75
halo_pos: [0, 0, 0]
halo_index: 0
halo_mass: 0.0E_11(m): 224

Nx: 0
Ny: 0
Nz: 30
Mx: 30
My: 0
Mz: 0
==============================================================
==============================================================
```





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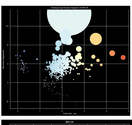
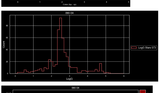
2030-00

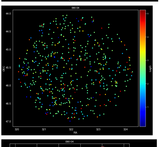
Programmes: ['apogee', 'apogee-marvels']

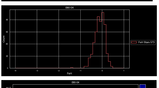
main_sequence: 40
turboff: 0
redgiants: 0
red_giants: 12
rgb_points: 12
rhd_points: = rhd_clump: 362

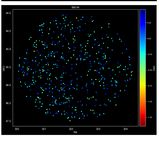
NH: 10
OH: 10
Mass: 10
Age: 10
Dist: 10
Mg: 10











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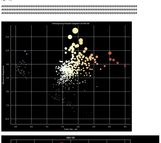
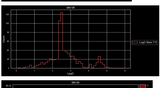
2030-00

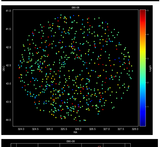
Programmes: ['apogee', 'apogee-marvels']

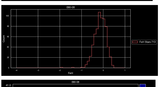
main_sequence: 78
turboff: 0
redgiants: 0
red_giants: 113
rgb_points: 113
rhd_points: = rhd_clump: 438

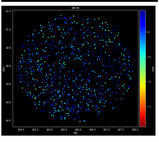
NH: 10
OH: 10
Mass: 10
Age: 10
Dist: 10
Mg: 10











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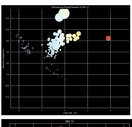
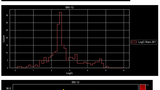
2030-12

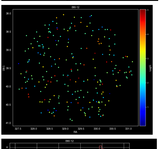
Programmes: ['apogee']

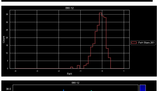
main_sequence: 22
turboff: 0
redgiants: 0
red_giants: 0
rgb_points: 147
rhd_points: = rhd_clump: 157

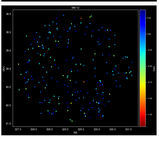
NH: 10
OH: 10
Mass: 10
Age: 10
Dist: 10
Mg: 10











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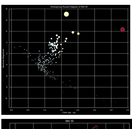
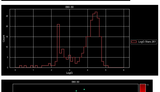
2030-20

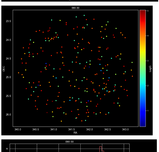
Programmes: ['rv/v']

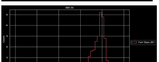
main_sequence: 110
turboff: 0
redgiants: 0
red_giants: 50
rgb_points: 50
rhd_points: = rhd_clump: 73

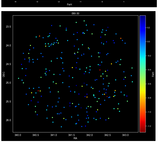
NH: 1
OH: 1
Mass: 1
Age: 1
Dist: 1
Mg: 1











****

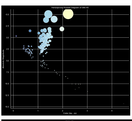
BRW-01

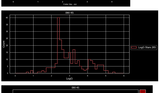
Programmer: ['spaupe']

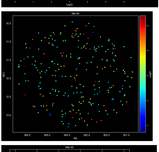
main_separator: 37
sunpoint: 0
subpoints: 0
sun_points: 0
num_clumps: 10
num_points = num_clump: 146

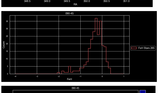
Dec: 0
Hour: 0
Min: 0
Mag: 20
Ra: 0
Mg: 0

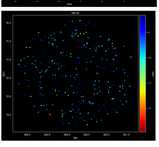
****











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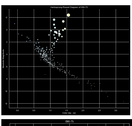
BRW-05

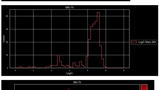
Programmer: ['kelv']

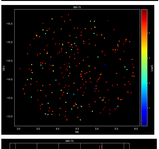
main_separator: 93
sunpoint: 0
subpoints: 0
sun_points: 0
num_clumps: 10
num_points = num_clump: 43

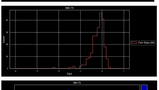
Dec: 0
Hour: 0
Min: 0
Mag: 20
Ra: 0
Mg: 0

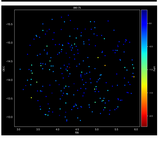
****











****

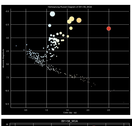
BRS-01_MLM

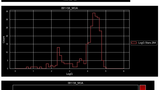
Programmer: ['kenpr']

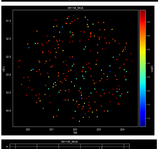
main_separator: 105
sunpoint: 0
subpoints: 0
sun_points: 0
num_clumps: 10
num_points = num_clump: 55

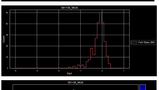
Dec: 0
Hour: 0
Min: 120
Mag: 20
Ra: 0
Mg: 0

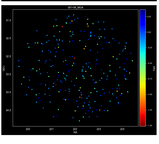
****











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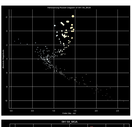
BRS-02_MLM

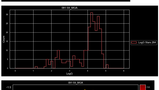
Programmer: ['kenpr']

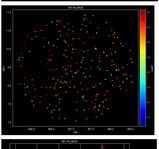
main_separator: 123
sunpoint: 0
subpoints: 0
sun_points: 0
num_clumps: 10
num_points = num_clump: 66

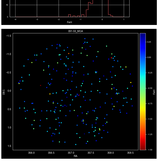
Dec: 0
Hour: 0
Min: 0
Mag: 20
Ra: 0
Mg: 0

****







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##################################################
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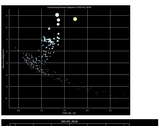
BOX/CD_MLA

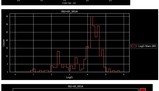
Programmer: ['George']

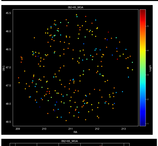
main_sequence: 1234
turnoff: 78
subgiants: 9
red_giants: 72
red_clump: 32
red_giants - red_clump: 58

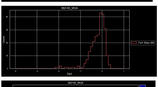
Dec: 0
Ra: 0
Mass: 0.9
Age: 12.8
Mg: 0.2
Fe: 0.2

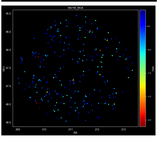
##################################################
##################################################
```









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

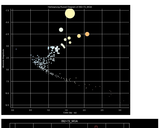
BOX/CD_MLA

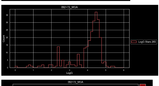
Programmer: ['George']

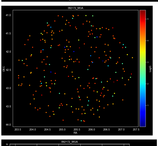
main_sequence: 1246
turnoff: 80
subgiants: 8
red_giants: 72
red_clump: 32
red_giants - red_clump: 52

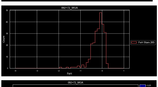
Dec: 0
Ra: 0
Mass: 0.9
Age: 12.8
Mg: 0.2
Fe: 0.2

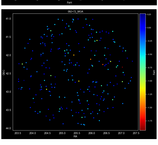
##################################################
##################################################
```












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

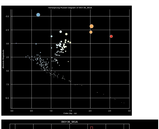
BOX/CD_MLA

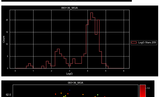
Programmer: ['George']

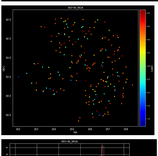
main_sequence: 90
turnoff: 72
subgiants: 12
red_giants: 72
red_clump: 32
red_giants - red_clump: 57

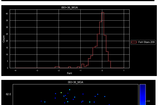
Dec: 0
Ra: 0
Mass: 0.9
Age: 12
Mg: 0.2
Fe: 0

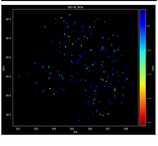
##################################################
##################################################
```












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

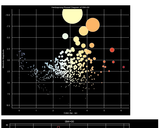
BOX/HR

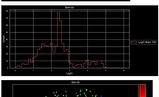
Programmer: ['Alvio']

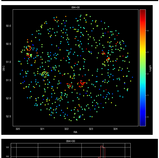
main_sequence: 90
turnoff: 28
subgiants: 8
red_giants: 528
red_clump: 32
red_giants - red_clump: 524

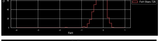
Dec: 0
Ra: 0
Mass: 0.9
Age: 12
Mg: 0.2
Fe: 0

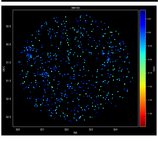
##################################################
##################################################
```











****
****

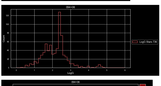
dbscan

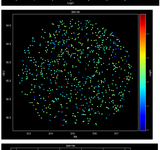
Programmes: ['./dbscan']

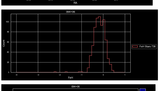
```
main_separator: 15
separator: 0
subsplits: 4
sub_separator: 0
num_clusters: 14
num_points: 50
min_cluster: 342
```

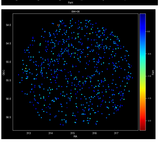
```
Mu: 0
Sig: 20
Mag: 10
Amp: 47
Mx: 40
My: 40
```

****
****









****
****

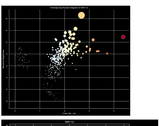
dbscan

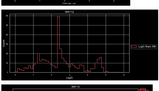
Programmes: ['./dbscan']

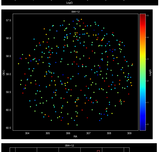
```
main_separator: 50
separator: 0
subsplits: 0
sub_separator: 50
num_clusters: 3
num_points: 250
```

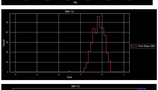
```
Mu: 0
Sig: 20
Mag: 10
Amp: 40
Mx: 40
My: 40
```

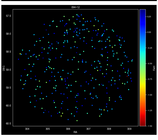
****
****











****
****

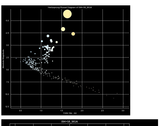
dbscan_mcs

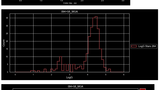
Programmes: ['./merge']

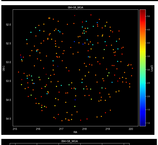
```
main_separator: 100
separator: 0
subsplits: 0
sub_separator: 0
num_points: 44
num_clusters: mcs_clusters: 44
```

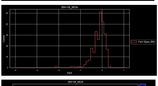
```
Mu: 0
Sig: 20
Mag: 10
Amp: 40
Mx: 40
My: 40
```

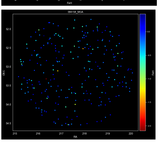
****
****











****
****

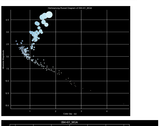
dbscan_mcs

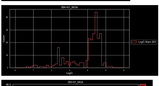
Programmes: ['./merge']

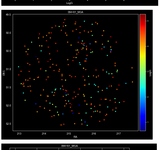
```
main_separator: 100
separator: 0
subsplits: 0
sub_separator: 0
num_clusters: mcs_clusters: 33
```

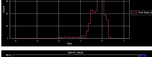
```
Mu: 0
Sig: 20
Mag: 10
Amp: 40
Mx: 40
My: 40
```

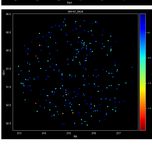
****
****












```
==========================================================
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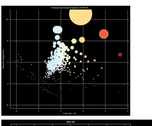
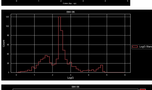
dim-30

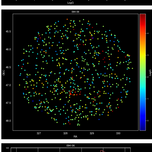
Drop-subdomain: ['stunt']

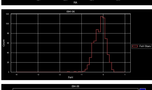
main_separator: 50
burnin: 0
subsample: 1
num_points: 250
num_clump: 40
num_points = num_clump: 40:

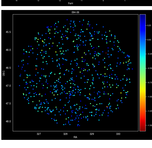
dm: 15
dsd: 15
dmd: 30
dsmd: 15
dw: 0
dsw: 0
==========================================================
==========================================================
```












```
==========================================================
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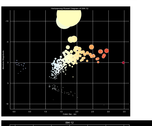
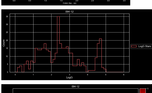
dim-32

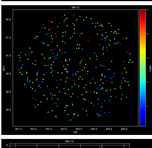
Drop-subdomain: ['stunt']

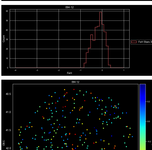
main_separator: 50
burnin: 0
subsample: 1
num_points: 250
num_clump: 40
num_points = num_clump: 200

dm: 0
dsd: 0
dmd: 45
dsmd: 45
dw: 0
dsw: 0
==========================================================
==========================================================
```










```
==========================================================
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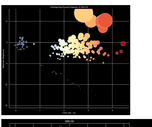
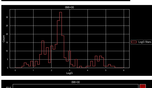
dim-40

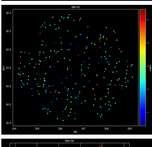
Drop-subdomain: ['sanger']

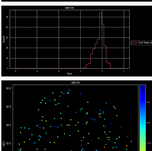
main_separator: 50
burnin: 0
subsample: 1
num_points: 250
num_clump: 175
num_points = num_clump: 175

dm: 0
dsd: 0
dmd: 0
dsmd: 0
dw: 0
dsw: 0
==========================================================
==========================================================
```









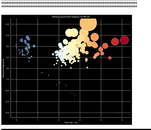

```
==========================================================
==========================================================

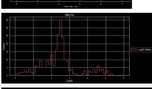
dim-40

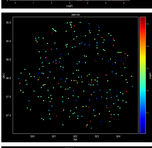
Drop-subdomain: ['sanger']

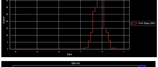
main_separator: 50
burnin: 0
subsample: 1
num_points: 250
num_clump: 175
num_points = num_clump: 175

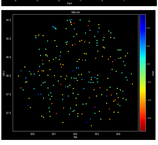
dm: 15
dsd: 15
dmd: 30
dsmd: 15
dw: 0
dsw: 0
==========================================================
==========================================================
```









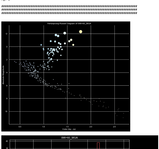


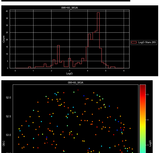

```
DEEP_FIELD

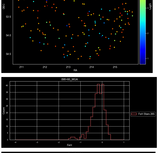
Programmes: ['Gamma']

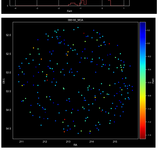
main_separator: 127
sumpoint: 0
subpoints: 31
rad_points: 20
rad_points: 127
rad_points = rad_clump: 41

Dec: 0
Ra: 180
dec: 0.0
Ra: 180
Dec: 0
Ra: 0
```







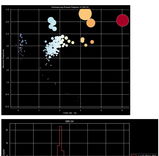


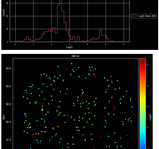
```
AMB-00

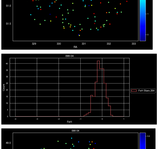
Programmes: ['Lepsque']

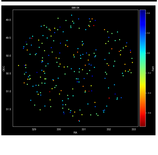
main_separator: 15
sumpoint: 0
subpoints: 0
rad_points: 220
rad_points: 15
rad_points = rad_clump: 157

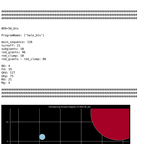
Dec: 0
Ra: 0
dec: 0.0
Ra: 180
Dec: 0
Ra: 0
```









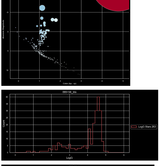


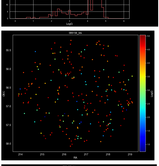

```
BRIGHL_pix

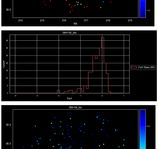
Programmes: ['Vela_Ely']

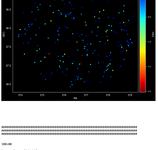
main_separator: 128
sumpoint: 0
subpoints: 0
rad_points: 0
rad_points: 20
rad_points = rad_clump: 86

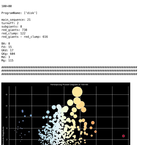
Dec: 0
Ra: 127
dec: 0.0
Ra: 0
Dec: 0
Ra: 0
```









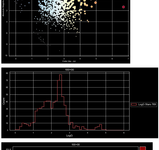


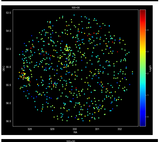

```
CORLOR

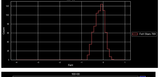
Programmes: ['Color']

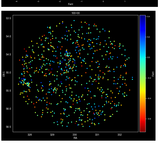
main_separator: 21
sumpoint: 0
subpoints: 0
rad_points: 0
rad_points: 110
rad_points = rad_clump: 030

Dec: 0
Ra: 0
dec: 0.0
Ra: 180
Dec: 0
Ra: 0
```







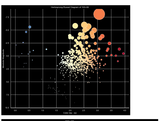


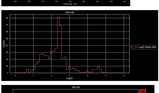
SDR-08

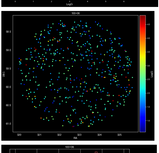
Programmer: ['color']

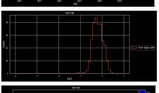
```
main_sequence: 26
lumpsPT: 8
subgenre: 72
red_points: 722
red_lumps: 18
red_points - red_lumps: 430

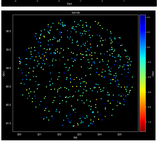
Mo: 0
Ma: 0
Ahr: 0
Ahm: 30
Mr: 0
Mm: 0
Mo: 0
```









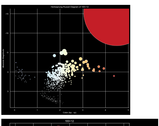


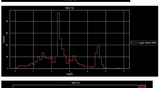
SDR-12

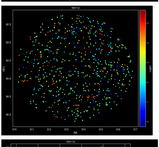
Programmer: ['color']

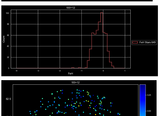
```
main_sequence: 96
lumpsPT: 12
subgenre: 12
red_points: 108
red_lumps: 18
red_points - red_lumps: 414

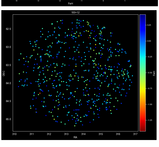
Mo: 20
Ma: 20
Ahr: 0
Ahm: 812
Mr: 20
Mm: 50
```









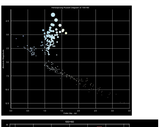


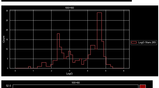
SDR-08

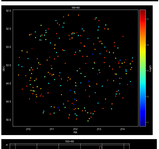
Programmer: ['apogee']

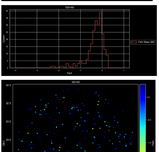
```
main_sequence: 111
lumpsPT: 18
subgenre: 108
red_points: 27
red_lumps: 9
red_points - red_lumps: 98

Mo: 0
Ma: 0
Ahr: 20
Ahm: 40
Mr: 0
```







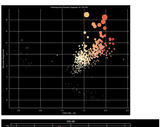


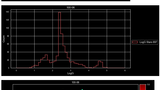
SDR-08

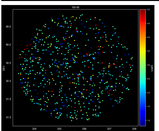
Programmer: ['color']

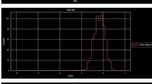
```
main_sequence: 36
lumpsPT: 6
subgenre: 216
red_points: 648
red_lumps: 18
red_points - red_lumps: 446

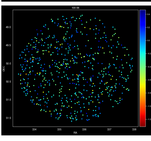
Mo: 0
Ma: 0
Ahr: 20
Ahm: 40
Mr: 0
```











```
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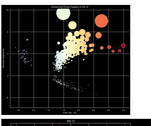
100-12

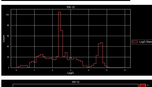
Programmer: I'ctor I

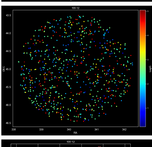
main_sequence: 108
subgiant: 0
subgiants: 0
red_giants: 0
red_giants: 108
red_giant: red_clump: 438

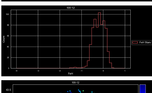
Mv: 12
Vr: 12
Mag: 0
Mag: 0.99
Mag: 0.7
Mg: 12

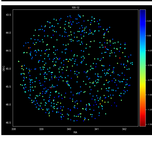
==========================================================
==========================================================
```











```
==========================================================
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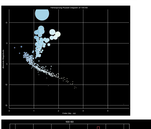
100-00

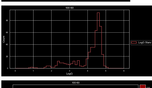
Programmer: I'ampar 'ta'a'i

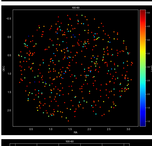
main_sequence: 111
subgiant: 0
subgiants: 0
red_giants: 118
red_giant: 0
red_giant: red_clump: 589

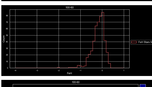
Mv: 0
Vr: 0
Mag: 0.99
Mag: 0.7
Mg: 0
Mv: 0

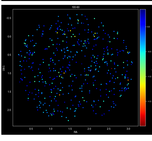
==========================================================
==========================================================
```











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101-00

Programmer: I'ampar'i

main_sequence: 39
subgiant: 0
subgiants: 0
red_giants: 0
red_giant: 0
red_giant: red_clump: 177

Mv: 11
Vr: 11
Mag: 0
Mag: 0.99
Mg: 11
Mv: 11

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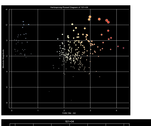

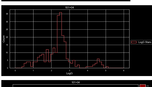

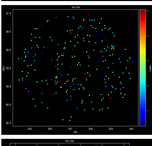

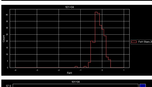

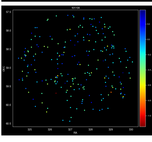

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101-00

Programmer: I'ampar'i

main_sequence: 39
subgiant: 0
subgiants: 0
red_giants: 0
red_giant: 0
red_giant: red_clump: 173

Mv: 0
Vr: 0
Mag: 0
Mag: 0.99
Mg: 0
Mv: 0

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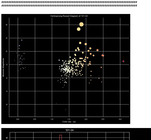
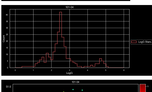
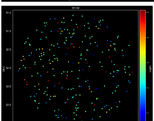
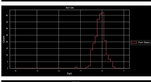
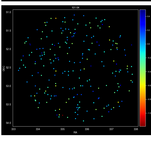
```









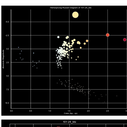


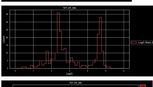

```
SEDOV_MCA

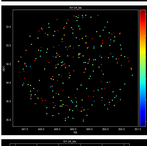
Programmer: [Victor]

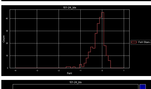
main_sequence: [0]
hydro0: 0
hydro1: 0
red_gravity: 0
red_cooling: 0
red_points = red_clump: 128

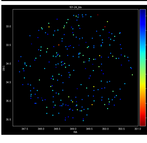
Nx: 8
Ny: 8
Nz: 16
Mx: 8
My: 8
Mz: 16
```









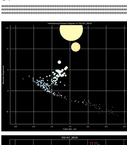


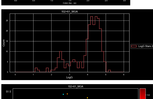

```
SEDOV_MCA

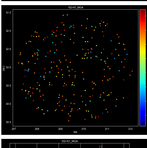
Programmer: [Yeongu]

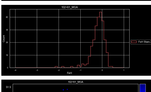
main_sequence: [0]
hydro0: 0
hydro1: 0
red_gravity: 0
red_cooling: 0
red_points = red_clump: 56

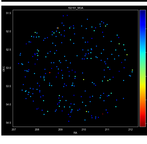
Nx: 8
Ny: 8
Nz: 16
Mx: 8
My: 8
Mz: 16
```









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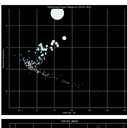
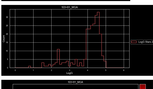
SEDOV_MCA

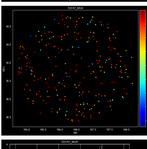
Programmer: [Yeongu]

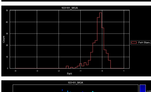
main_sequence: 128
hydro0: 0
hydro1: 0
red_gravity: 0
red_cooling: 0
red_points = red_clump: 52

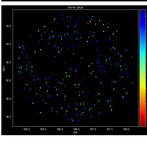
Nx: 8
Ny: 8
Nz: 16
Mx: 8
My: 8
Mz: 16
```









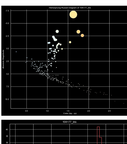


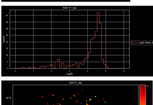

```
SEDOV_pto

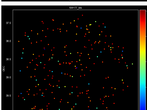
Programmer: [Tania_Ely]

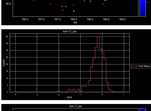
main_sequence: 127
hydro0: 0
hydro1: 0
red_gravity: 0
red_cooling: 0
red_points = red_clump: 42

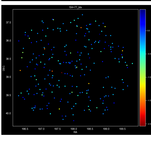
Nx: 8
Ny: 8
Nz: 16
Mx: 8
My: 8
Mz: 16
```











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SDC-08

Programmer: I'aspar'I

main_separator: 20
turnoff: 0
subpixels: 2
sub_pixels: 16
red_pixels: 40
red_pixels = red_clump: 176

Mu: 0
Sig: 0
Mag: 0
Mag_SDM
Mu: 0
Mu: 0
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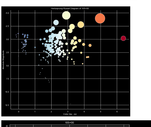
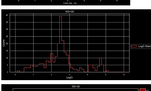
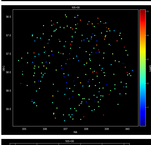
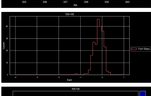
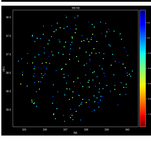
==================================================
```











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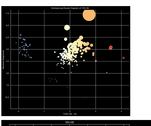
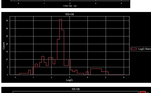
SDC-09

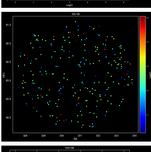
Programmer: I'aspar'I

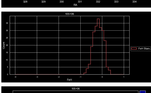
main_separator: 20
turnoff: 0
subpixels: 2
sub_pixels: 100
red_pixels: 200
red_pixels = red_clump: 582

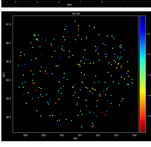
Mu: 0
Sig: 0
Mag: 0
Mag_SDM
Mu: 0
Mu: 0
==================================================
==================================================
```











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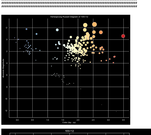
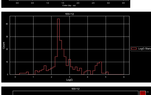
SDC-10

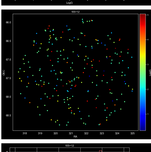
Programmer: I'aspar'I

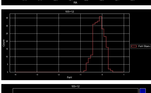
main_separator: 20
turnoff: 0
subpixels: 2
sub_pixels: 100
red_pixels: 200
red_pixels = red_clump: 558

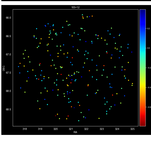
Mu: 0
Sig: 0
Mag: 0
Mag_SDM
Mu: 0
==================================================
==================================================
```











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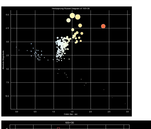
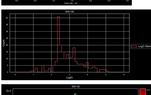
SDC-11

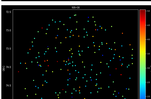
Programmer: I'aspar'I

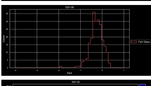
main_separator: 20
turnoff: 0
subpixels: 2
sub_pixels: 16
red_pixels: 40
red_pixels = red_clump: 171

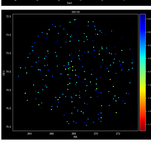
Mu: 0
Sig: 0
Mag: 0
Mag_SDM
Mu: 0
==================================================
==================================================
```











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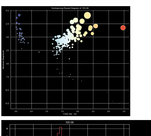
SMS-MD

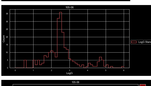
Prog=nbdmmc [']apogee[']

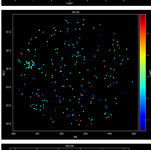
mass_separation: 25
halo[0]: 84
halo[1]: 84
nsp[parent]: 310
nsp[halo]: 310
nsp_points: nsp_clump: 173

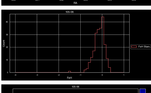
Dec: 11
Ecc: 0.4
Mass: 84
Mvir: 84.07
Rvir: 1
Rs: 0.1

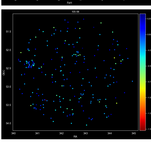
==========











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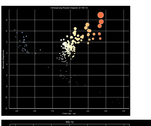
SMS-LO

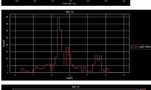
Prog=nbdmmc [']apogee[']

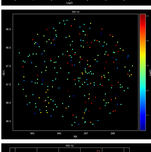
mass_separation: 40
halo[0]: 84
halo[1]: 84
nsp[parent]: 310
nsp[halo]: 310
nsp_points: nsp_clump: 140

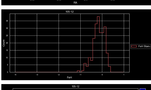
Dec: 21
Ecc: 0.4
Mass: 84
Mvir: 84
Rvir: 1
Rs: 0.1

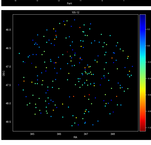
==========











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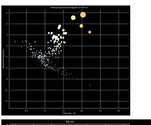
ANN-MD

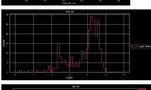
Prog=nbdmmc [']halo[']

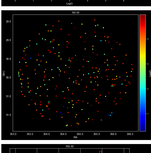
mass_separation: 115
halo[0]: 84
halo[1]: 84
nsp[parent]: 67
nsp[halo]: 67
nsp_points: nsp_clump: 47

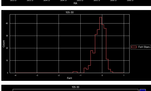
Dec: 2
Ecc: 0
Mass: 84
Mvir: 84
Rvir: 1
Rs: 0

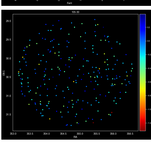
==========











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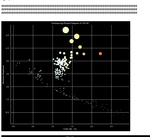
SMS-HD

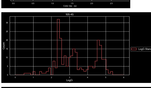
Prog=nbdmmc [']apogee[']

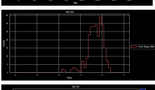
mass_separation: 75
halo[0]: 84
halo[1]: 84
nsp[parent]: 310
nsp[halo]: 310
nsp_points: nsp_clump: 124

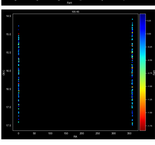
Dec: 2
Ecc: 0
Mass: 84
Mvir: 84
Rvir: 1
Rs: 0

==========









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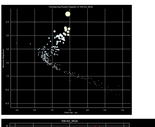
DB-01_PG_0

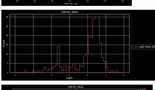
Program name: [energy]

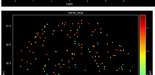
main_sequence: 120
turnoff: 0
subgiants: 0
red_giants: 0
red_giants: 10
red_giants + red_clump: 59

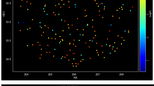
Mv: 0
Vc: 0
Mag: 19
Mag: 0
Mg: 0

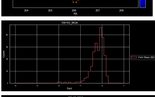
==========

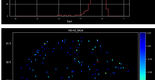












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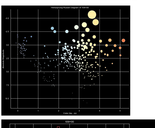
DB-00

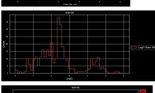
Program name: [Color]

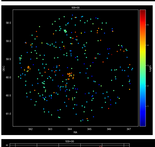
main_sequence: 45
turnoff: 0
subgiants: 0
red_giants: 312
red_giants: 0
red_giants + red_clump: 240

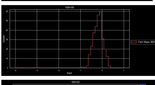
Mv: 0
Vc: 0
Mag: 19
Mag: 0
Mg: 0

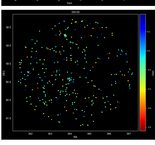
==========











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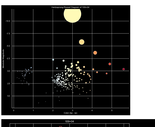
DB-00

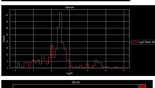
Program name: [spaper]

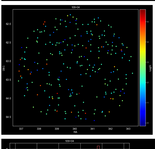
main_sequence: 39
turnoff: 0
subgiants: 0
red_giants: 0
red_giants: 40
red_giants + red_clump: 175

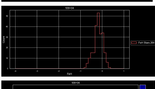
Mv: 0
Vc: 0
Mag: 19
Mag: 0
Mg: 0

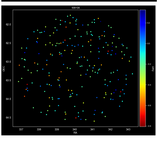
==========











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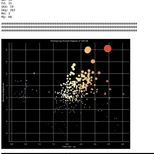
DB-00

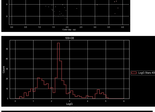
Program name: [Color]

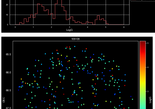
main_sequence: 0
turnoff: 0
subgiants: 0
red_giants: 0
red_giants: 0
red_giants + red_clump: 171

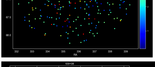
Mv: 0
Vc: 0
Mag: 19
Mag: 0
Mg: 0

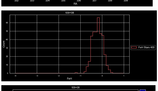
==========

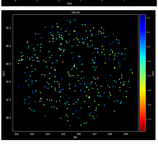












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GR01C

Programmer: ['Alice']

main_separation: 30
height: 0
separation: 0
rad_gamma: 0.0
rad_alpha: 0.0
rad_clump: 0
rad_clump_n: rad_clump: 240

Nx: 32
Ny: 32
Nz: 16
Mass: 1M
Mag: 0
Mp: 0
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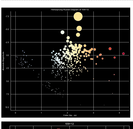

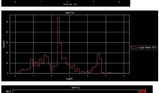

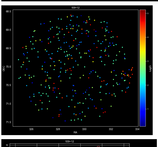

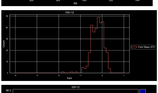

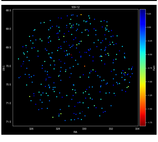

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GR04B_MLA

Programmer: ['George']

main_separation: 100
height: 0
separation: 0
rad_gamma: 0.0
rad_alpha: 0
rad_clump: 0
rad_clump_n: rad_clump: 50

Nx: 32
Ny: 32
Nz: 16
Mass: 1M
Mp: 0
Mg: 1
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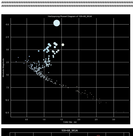
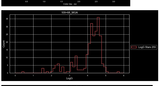
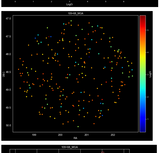
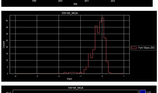
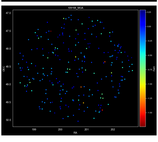
```











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GR05-BH

Programmer: ['Jasper']

main_separation: 25
height: 0
separation: 0
rad_gamma: 25
rad_alpha: 0
rad_clump: 0
rad_clump_n: rad_clump: 555

Nx: 32
Ny: 32
Nz: 16
Mass: 1M
Mp: 0
Mg: 1
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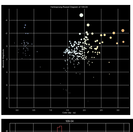
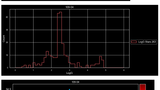
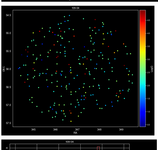
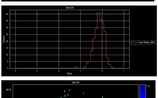
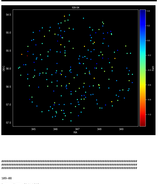
```











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GR06-BH

Programmer: ['Alice']

main_separation: 50
height: 0
separation: 0
rad_gamma: 0
rad_alpha: 0
rad_clump: 0
rad_clump_n: rad_clump: 555

Nx: 32
Ny: 32
Nz: 16
Mass: 1M
Mp: 0
Mg: 1
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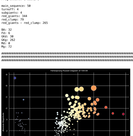
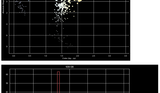
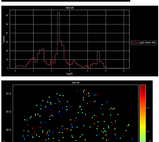
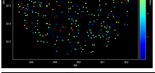
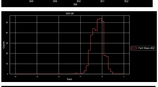
```

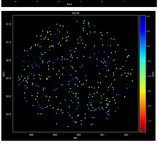












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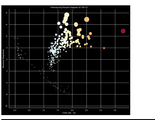
GW-SS

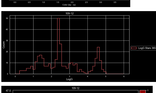
Programmes: ['Gold']

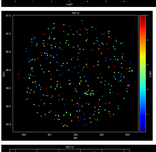
main_separator: 0B
hostdiff: 0
hostdiff: 0
sep_cutoff: 0
red_cutoff: 0
red_points = red_cluster: 233

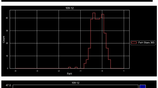
Nu: 0
Ne: 0
Nhy: 233
Nc: 0
Nu: 0

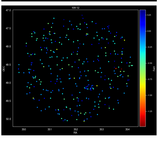
==========











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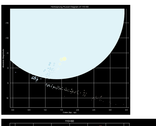
CB-HP

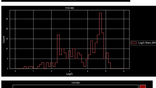
Programmes: ['epsilon']

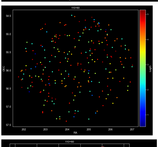
main_separator: 53
hostdiff: 53
hostdiff: 53
sep_cutoff: 0
red_cutoff: 0
red_points = red_cluster: 589

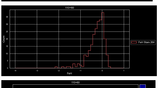
Nu: 0
Ne: 0
Nhy: 36
Nc: 0
Nu: 0

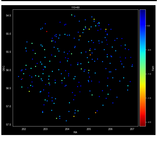
==========











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CB-SB

Programmes: ['Gold']

main_separator: 156
hostdiff: 0
sep_cutoff: 0
red_cutoff: 0
red_points = red_cluster: 42

Nu: 0
Ne: 0
Nhy: 42
Nc: 0
Nu: 0

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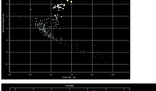

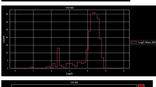

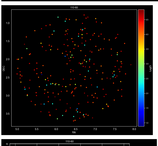

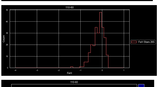

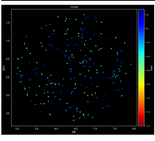

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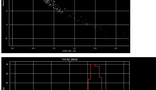
CB-SB_MGA

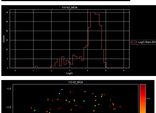
Programmes: ['energy']

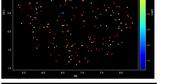
main_separator: 142
hostdiff: 0
sep_cutoff: 0
red_cutoff: 0
red_points = red_cluster: 51

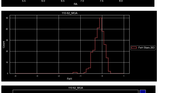
Nu: 0
Ne: 0
Nhy: 49
Nc: 0
Nu: 0

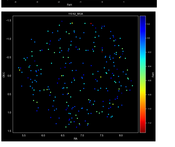
==========









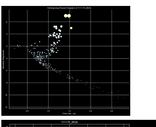


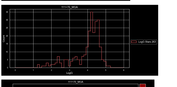
```
1214/B_PLA

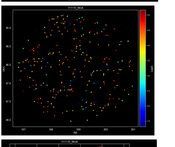
Programmer: I'anqar I

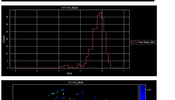
mem_separator: 28
nsteps: 1
subgrain: 2
nsubgrain: 2
rad_grain: 40
rad_grain = rad_clump: 41

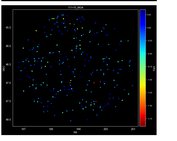
Nx: 8
Ny: 8
dxx: 0.2
dyy: 0.2
Nz: 2
dzz: 0.2
```









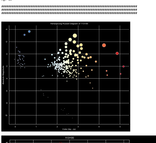


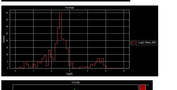
```
1214/B

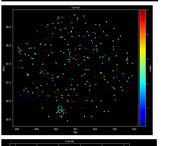
Programmer: I'anqar I

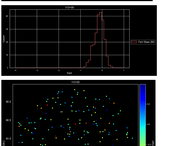
mem_separator: 28
nsteps: 1
subgrain: 2
nsubgrain: 2
rad_grain: 40
rad_grain = rad_clump: 105

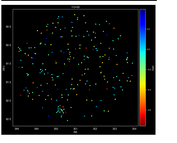
Nx: 8
Ny: 8
dxx: 0.2
dyy: 0.2
Nz: 2
dzz: 0.2
```









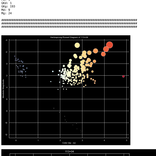


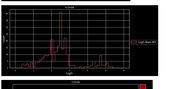
```
1214/B

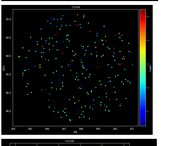
Programmer: I'anqar I

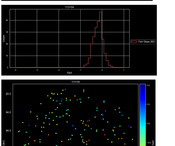
mem_separator: 28
nsteps: 1
subgrain: 2
nsubgrain: 2
rad_grain: 40
rad_grain = rad_clump: 105

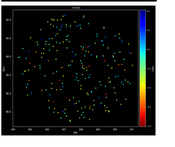
Nx: 8
Ny: 8
dxx: 0.2
dyy: 0.2
Nz: 2
dzz: 0.2
```









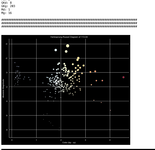


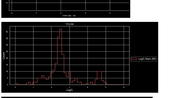
```
1214/B0

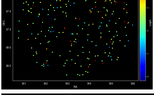
Programmer: I'anqar I

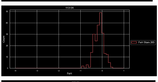
mem_separator: 28
nsteps: 1
subgrain: 2
nsubgrain: 2
rad_grain: 40
rad_grain = rad_clump: 303

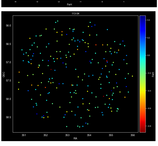
Nx: 8
Ny: 8
dxx: 0.2
dyy: 0.2
Nz: 2
```











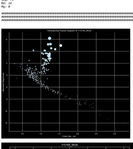
```
#################################################
#################################################

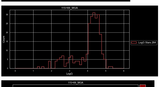
SIDUS_MLA

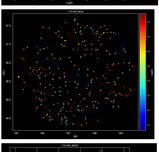
Programmer: ['mango']

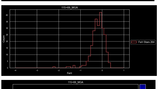
main_separator: 100
header: 0
subparts: 5
num_points: 50
num_dims: 2
num_points - num_clump: 17

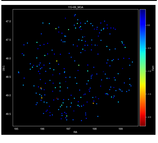
Mr: 0
Mg: 0
Mb: 127
Mmg: 127
Mmb: 0
Mc: 0
```











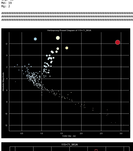
```
#################################################
#################################################

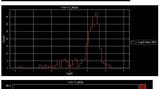
SIDUS_MLA

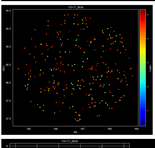
Programmer: ['mango']

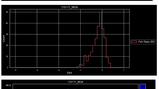
main_separator: 100
header: 0
subparts: 5
num_points: 50
num_points - num_clump: 48

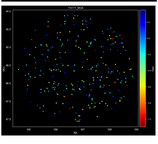
Mr: 0
Mg: 0
Mb: 127
Mmg: 127
Mmb: 0
Mc: 0
```











```
#################################################
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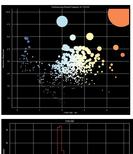
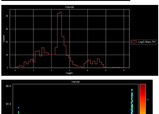
SIDUS

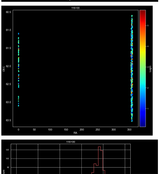
Programmer: ['alice']

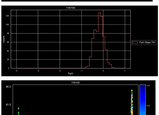
main_separator: 50
header: 0
subparts: 8
num_points: 50
num_points - num_clump: 585

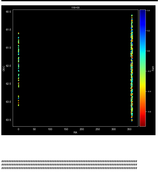
Mr: 25
Mg: 0
Mb: 0
Mmg: 229
Mmb: 0
Mc: 0
```











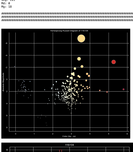
```
#################################################
#################################################

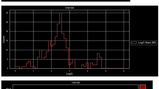
SIDUS

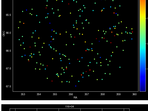
Programmer: ['apogee']

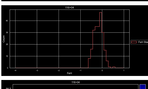
main_separator: 20
header: 0
subparts: 8
num_points: 200
num_points - num_clump: 193

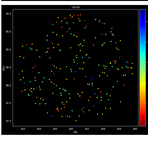
Mr: 25
Mg: 0
Mb: 0
Mmg: 229
Mmb: 0
Mc: 0
```











```
CZB:HM

Prog-name: ['apogee']

main_separator: 22
header: 0
subgenre: 0
subgenre: 0
cmd_genre: 30
cmd_genre: - cmd_flag: 175

Ver: 20
Year: 0
Day: 0
Hour: 0
Min: 0
Sec: 0
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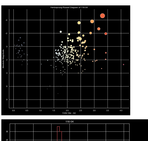
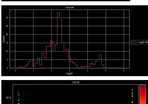
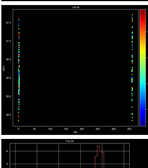
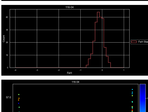
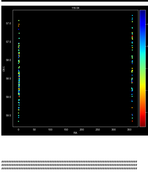








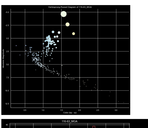


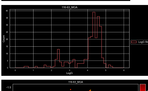
```
CZB:SQ_MLA

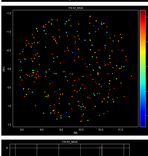
Prog-name: ['energy']

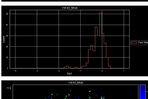
main_separator: 148
header: 0
subgenre: 0
cmd_genre: 30
cmd_genre: 0
cmd_genre: - cmd_flag: 53

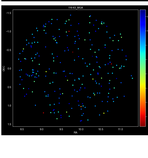
Ver: 20
Year: 0
Day: 0
Hour: 0
Min: 0
Sec: 0
```









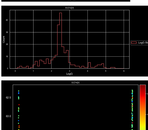


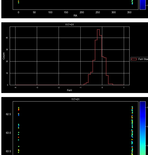
```
CZ:HD

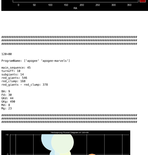
Prog-name: ['apogee']

main_separator: 0
header: 0
subgenre: 0
cmd_genre: 130
cmd_genre: 0
cmd_genre: - cmd_flag: 162

Ver: 20
Year: 0
Day: 0
Hour: 0
Min: 0
Sec: 0
```





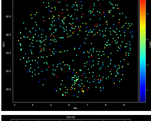


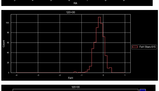
```
CZ:HD

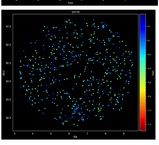
Prog-name: ['apogee' 'apogee-marvels']

main_separator: 40
header: 0
subgenre: 32
cmd_genre: 130
cmd_genre: 100
cmd_genre: - cmd_flag: 170

Ver: 0
Year: 0
Day: 0
Hour: 0
Min: 0
Sec: 0
```



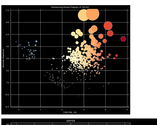


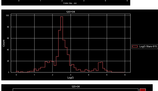


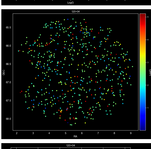
```
==========================================
[2.0e-08]
Programmer: ['apogee', 'apogee-master']

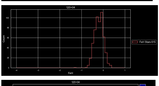
main_separator: 50
hydrofit: 0
hydrofit_v: 0
num_points: 520
num_gravity: 0
real_points = num_flying: 397

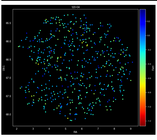
Mx: 20
My: 20
Mzp: 20
Mzm: 20
Mx: 20
My: 20
==========================================
```







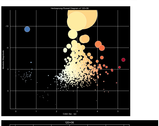


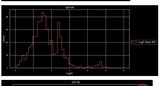


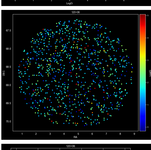
```
==========================================
[2.0e-08]
Programmer: ['slice']

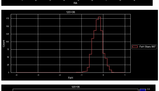
main_separator: 27
hydrofit: 0
hydrofit_v: 0
num_points: 822
num_gravity: 0
real_points = num_flying: 852

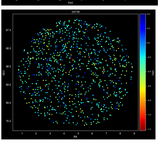
Mx: 20
My: 20
Mzp: 20
Mzm: 20
Mx: 20
My: 20
==========================================
```







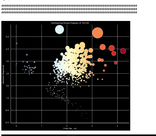


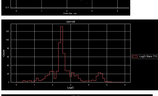


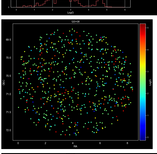
```
==========================================
[2.0e-08]
Programmer: ['apogee', 'apogee-master']

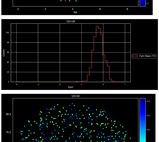
main_separator: 70
hydrofit: 0
hydrofit_v: 0
num_points: 1
num_gravity: 100
real_points = num_flying: 422

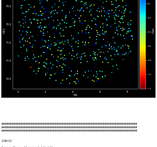
Mx: 20
My: 20
Mzp: 20
Mzm: 20
Mx: 20
My: 20
==========================================
```











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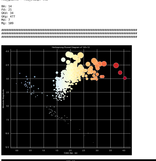
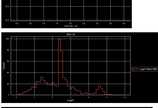
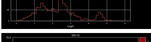
==========================================
[2.0e-11]
Programmer: ['apogee', 'slice']

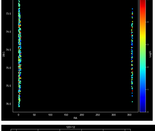
main_separator: 50
hydrofit: 0
hydrofit_v: 0
num_points: 842
num_gravity: 0
real_points = num_flying: 440

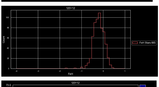
Mx: 20
My: 20
Mzp: 20
Mzm: 20
Mx: 20
My: 20
==========================================
```

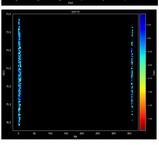












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LDA-20

Programmer: ['Alex']

main_separator: 177
sumsqrt: 0
subjectivity: 0.85
sum_points: 0.85
red_points = red_clump: 177

Dir: 0
Dim: 20
Jets: 20
Max: 0.85
Min: 0
Mu: 0
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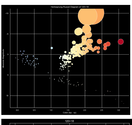
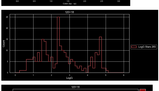
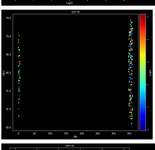
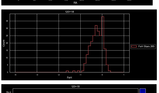
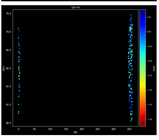
```











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LDA-30

Programmer: ['apoger', 'Yara']

main_separator: 177
sumsqrt: 0
subjectivity: 0.
sum_points: 0.
red_points = red_clump: 300

Dir: 0
Dim: 30
Jets: 30
Max: 0.3
Min: 0
Mu: 0
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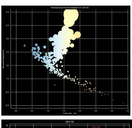
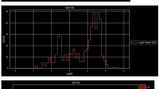
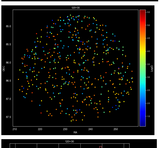
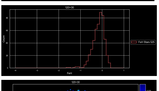
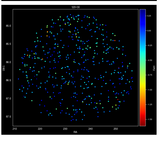
==========================================================
```











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LDA-40

Programmer: ['apoger', 'Yara']

main_separator: 125
sumsqrt: 0
subjectivity: 0.
sum_points: 0.
red_points = red_clump: 340

Dir: 0
Dim: 40
Jets: 40
Max: 0.4
Min: 0
Mu: 0
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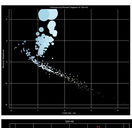
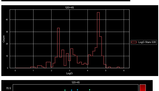
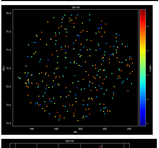
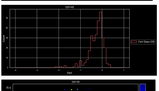
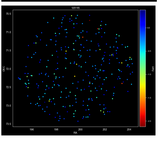
```











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LDA-60

Programmer: ['apoger', 'Yara']

main_separator: 218
sumsqrt: 0
subjectivity: 0.
sum_points: 0.
red_points = red_clump: 380

Dir: 0
Dim: 60
Jets: 60
Max: 0.6
Min: 0
Mu: 0
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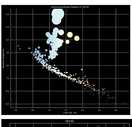
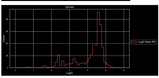
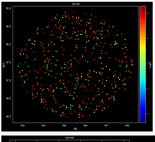
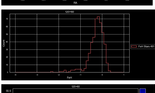
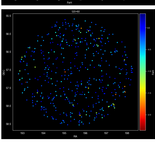
```











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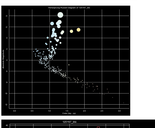
S2Ar2Cl4:

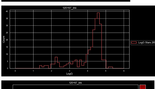
Programmer: ['mario_bro']

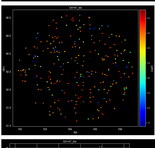
mass_sequence: 150
sample: 0
subgenric: 15
ind_genric: 36
mass_cap: 300
ind_genric + ind_clump: 66

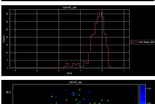
Mn: 0
Mx: 0
Ndv: 37
Nbv: 37
Nc: 0
Nu: 0

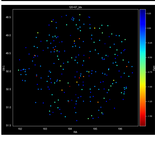
==========











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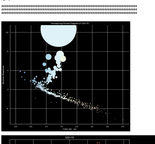
S2H5Cl:

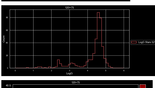
Programmer: ['sponger' 'kafa']

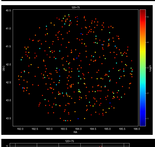
mass_sequence: 67
sample: 0
subgenric: 161
ind_genric: 161
mass_cap: 300
ind_genric + ind_clump: 303

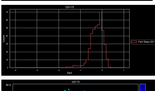
Mn: 0
Mx: 0
Ndv: 37
Nbv: 37
Nc: 148
Nu: 0

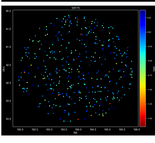
==========











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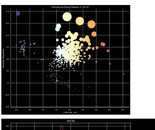
S2H4O

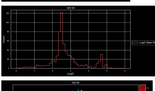
Programmer: ['sponger' 'mario-bro']

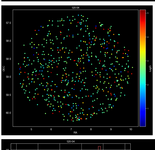
mass_sequence: 75
sample: 0
subgenric: 18
ind_genric: 36
mass_cap: 300
ind_genric + ind_clump: 303

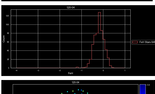
Mn: 0
Mx: 0
Ndv: 36
Nbv: 36
Nc: 0
Nu: 0

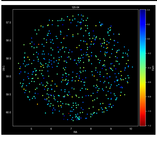
==========











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S3N4O

Programmer: ['kicor']

mass_sequence: 32
sample: 0
subgenric: 161
ind_genric: 161
mass_cap: 300
ind_genric + ind_clump: 303

Mn: 0
Mx: 0
Ndv: 36
Nbv: 36
Nc: 0
Nu: 0

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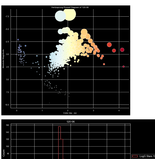
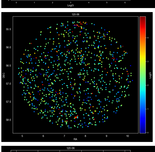
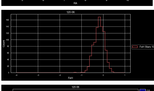
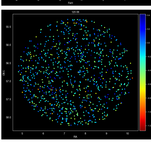






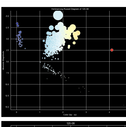


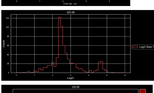
S36-00

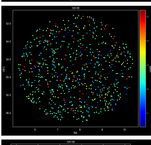
Programmers: ['apogee', 'apogee-ms-ori']

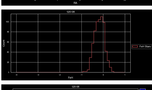
main_separator: 72
subgroup: 0
sub_separator: 0
red_quality: 424
red_flags: 288
red_quality - red_flags: 410

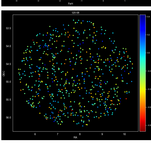
Mo: 10
Yr: 21
Day: 18
Hour: 00
Min: 12
Sec: 00









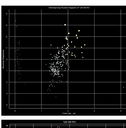


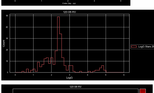
S36-00-01

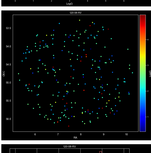
Programmers: ['subsrlfler']

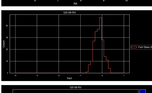
main_separator: 57
subgroup: 0
sub_separator: 0
red_quality: 76
red_flags: 76
red_quality - red_flags: 172

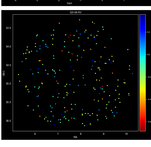
Mo: 10
Yr: 21
Day: 18
Hour: 00
Min: 06









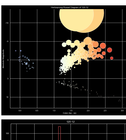


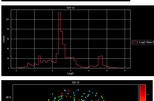
S36-12

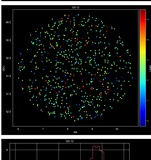
Programmers: ['apogee', 'ccid']

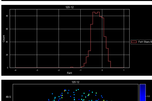
main_separator: 72
subgroup: 0
sub_separator: 0
red_quality: 512
red_flags: 512
red_quality - red_flags: 480

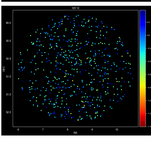
Mo: 10
Yr: 21
Day: 18
Hour: 00
Min: 18
Sec: 00









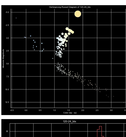


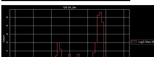
S36-20_bto

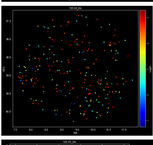
Programmers: ['ulcir']

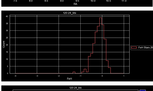
main_separator: 136
subgroup: 0
sub_separator: 0
red_quality: 32
red_flags: 32
red_quality - red_flags: 96

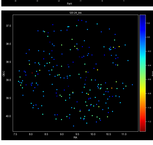
Mo: 1
Yr: 2
Day: 18
Hour: 00
Min: 00
Sec: 0











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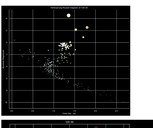
L36-06

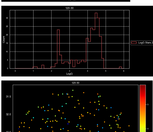
Programmes: ['halo']

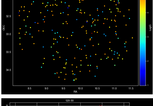
main_separator: 126
halo07: 41
halo09: 42
sub_gamma: 27
sub_halo: 27
rad_points = rad_clump: 54

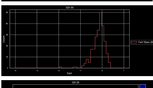
Nx: 8
Ny: 8
Nhaz: 10
Nhay: 10
Nz: 2

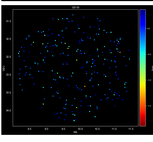
==========











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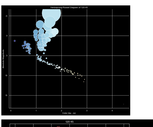
L36-08

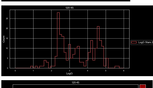
Programmes: ['unique']

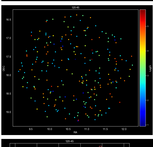
main_separator: 76
halo07: 38
sub_gamma: 12
sub_halo: 12
rad_points = rad_clump: 125

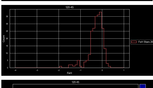
Nx: 8
Ny: 8
Nhaz: 10
Nhay: 10
Nz: 2

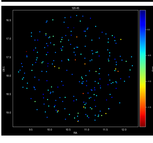
==========











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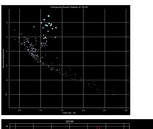
L36-09

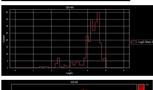
Programmes: ['halo']

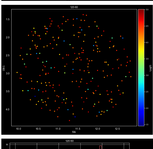
main_separator: 150
halo07: 75
sub_gamma: 0
sub_halo: 0
rad_points = rad_clump: 38

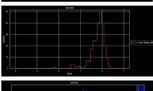
Nx: 8
Ny: 8
Nhaz: 10
Nhay: 10
Nz: 2

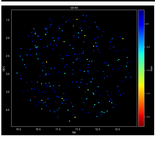
==========











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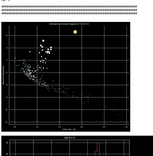
L36-03-2

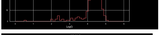
Programmes: ['halo', 'halo', 'halo', 'halo']

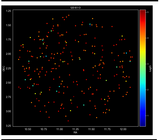
main_separator: 108
halo07: 48
halo09: 48
sub_gamma: 30
sub_halo: 30
rad_points = rad_clump: 33

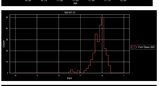
Nx: 8
Ny: 8
Nhaz: 10
Nhay: 10
Nz: 2

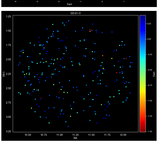
==========









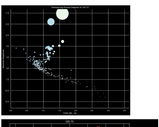


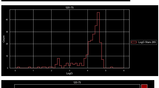
S36-75

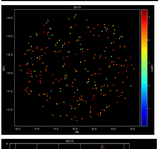
Programmes: ['Tw7a']

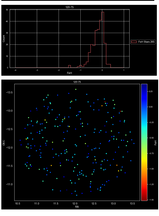
main_sequence: 152
turnoff: 21
subgiants: 15
giants: 12
red_giants: 4
red_clump: 48 red_clump: 58

Dec: 0
Ver: 0
Mag: 18
Mag: 18
Mag: 18
Mag: 18







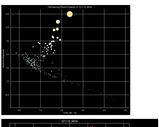


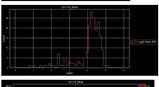
S3-75_MOA

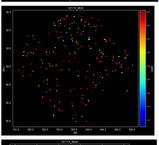
Programmes: ['Wenge']

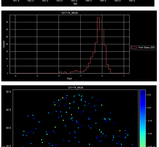
main_sequence: 139
turnoff: 21
subgiants: 3
giants: 12
red_giants: 4
red_clump: 35 red_clump: 35

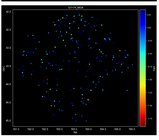
Dec: 0
Ver: 0
Mag: 21
Mag: 21
Mag: 21
Mag: 0









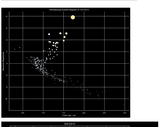


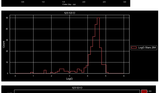
S3-75-1

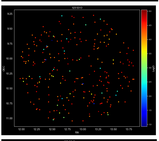
Programmes: ['TinkleGarbanzo_1/5']

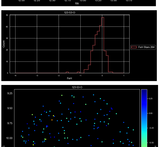
main_sequence: 160
turnoff: 21
subgiants: 3
giants: 12
red_giants: 4
red_clump: 35 red_clump: 35

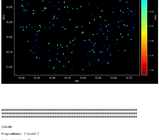
Dec: 0
Ver: 0
Mag: 23.5
Mag: 23
Mag: 23
Mag: 0









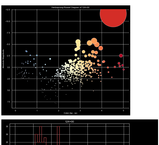


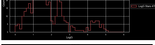
S36-80

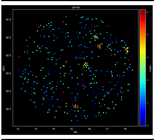
Programmes: ['Ulrich']

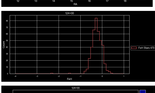
main_sequence: 37
turnoff: 2
subgiants: 2
giants: 12
red_giants: 4
red_clump: 170 red_clump: 170

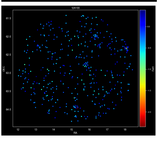
Dec: 20
Ver: 20
Mag: 18.5
Mag: 18.5
Mag: 18.5









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S2N=80

Programmer: I'anspar I

main_sequence: 25
turnoff: 5
subgiants: 5
red_giants: 250
total_stars: 285
red_giants / red_clump: 178

Mv: 20
Mr: 20
Mg: 20
Mmp: 0.0
Mbp: 20
Mp: 20
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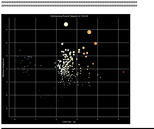

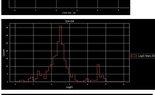

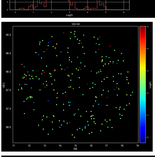

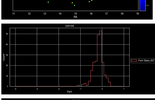

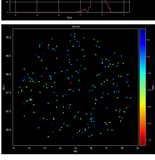


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S2N=80

Programmer: I'anspar I

main_sequence: 25
turnoff: 5
subgiants: 5
red_giants: 250
total_stars: 285
red_giants / red_clump: 164

Mv: 20
Mr: 20
Mg: 20
Mmp: 0.0
Mbp: 20
Mp: 20
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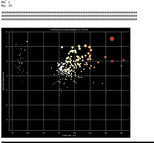
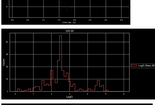
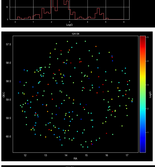
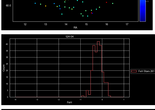
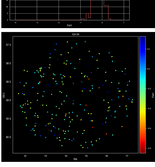
```









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S2N=50

Programmer: I'ainsf I

main_sequence: 28
turnoff: 5
subgiants: 5
red_giants: 250
total_stars: 288
red_giants / red_clump: 238

Mv: 20
Mr: 20
Mg: 20
Mmp: 0.0
Mbp: 20
Mp: 20
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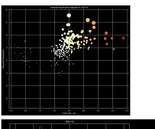
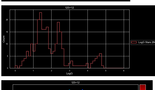
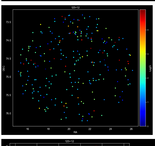
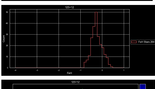
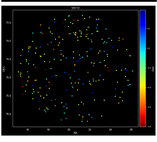
==========================================
```









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S2N=30

Programmer: I'ainsf I

main_sequence: 28
turnoff: 5
subgiants: 5
red_giants: 250
total_stars: 288
red_giants / red_clump: 195

Mv: 20
Mr: 20
Mg: 20
Mmp: 0.0
Mbp: 20
Mp: 20
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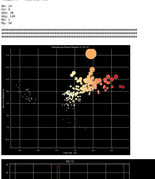
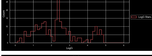
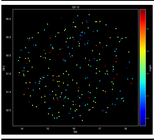
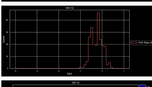
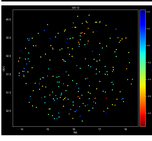
```









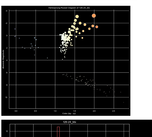


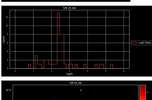
126-24_Ptc

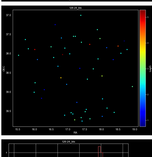
Programmer: ['Victor']

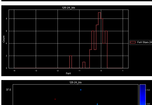
```
main_sequence: A
mutation: 0.01
subgenes: 5
sub_genes: 20
red_genes: 30
red_genes - red_clas: 225

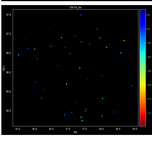
Gen: 0
Ind: 11
Mut: 0
Mag: 0
Mu: 0
```









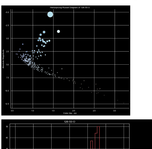


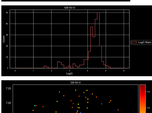
126-15-0

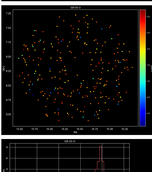
Programmer: ['YoshoHarbaden_17v']

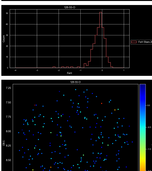
```
main_sequence: 184
mutation: 0.01
subgenes: 5
red_genes: 30
red_genes - red_clas: 26

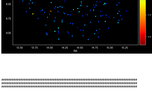
Gen: 0
Ind: 0
Mut: 0
Mag: 0
Mu: 0
```









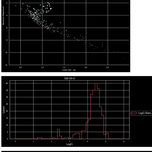


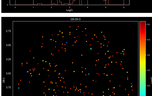
126-19-0

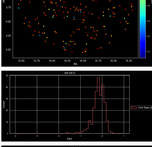
Programmer: ['YoshoHarbaden_17v']

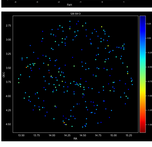
```
main_sequence: 187
mutation: 0.01
subgenes: 5
red_genes: 30
red_genes - red_clas: 29

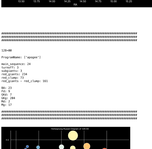
Gen: 0
Ind: 0
Mut: 0
Mag: 0
Mu: 0
```









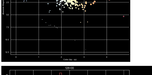


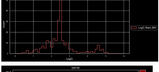
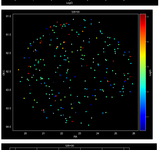
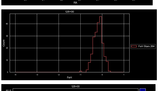
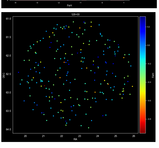
126-40

Programmer: ['sanger']

```
main_sequence: 20
mutation: 0.01
subgenes: 5
red_genes: 30
red_genes - red_clas: 501

Gen: 21
Ind: 0
Mut: 0
Mag: 284
Mu: 0
Mu: 21
```



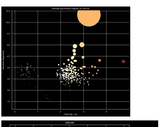
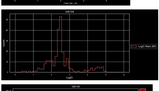
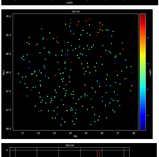
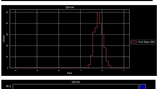
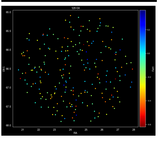





```
120:00

Programmer: [‘apogee’]

main_separator: 22
hurdle: 7
hurdle_gap: 2
red_points: 101
red_gap: 10
red_points - red_clump: 101

Mn: 0
Mx: 0
Mdn: 0
Mdev: 0
Mu: 0
Mx: 0
```

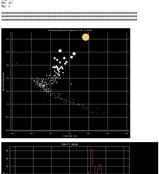
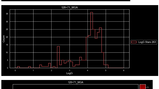
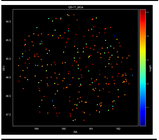
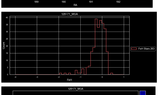
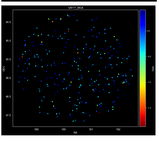






```
120:15_MLK

Programmer: [‘mengr’]

main_separator: 122
hurdle: 8
hurdle_gap: 2
red_points: 92
red_gap: 10
red_points - red_clump: 58

Mn: 0
Mx: 0
Mdn: 0.5
Mdev: 0.5
Mu: 0
Mx: 0
```

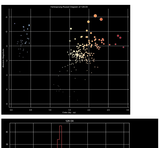
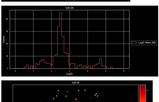
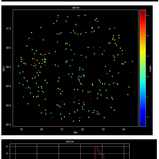
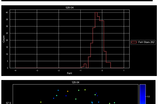
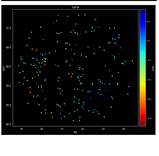






```
120:00

Programmer: [‘apogee’]

main_separator: 22
hurdle: 8
hurdle_gap: 2
red_points: 98
red_gap: 10
red_points - red_clump: 157

Mn: 0
Mx: 0
Mdn: 0
Mdev: 0
Mu: 0
Mx: 0
```

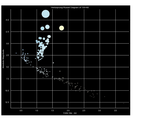






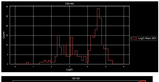
```
120:00

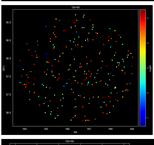
Programmer: [‘apogee’]

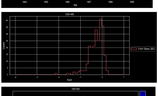
main_separator: 129
hurdle: 8
hurdle_gap: 2
red_points: 116
red_gap: 10
red_points - red_clump: 93

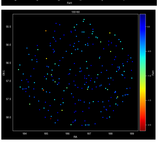
Mn: 0
Mx: 0
Mdn: 0
Mdev: 0
Mu: 0
Mx: 0
```









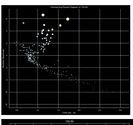


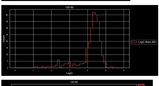
```
CM-00

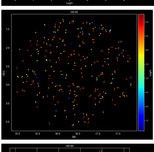
Programmer: ['Mary']

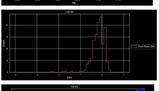
main_separator: 20
halo(F): 0
subparts: 0
ref_index: 0
ref_frame: 0
ref_parts + ref_time: 37

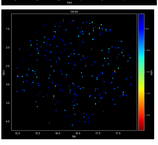
Mx: 0
My: 0
Mz: 0.07
Mvx: 0
Mvy: 0
Mvz: 0
```









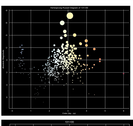


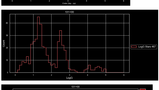
```
CM-00

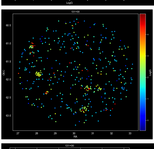
Programmer: ['Victor']

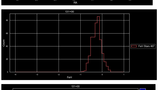
main_separator: 20
halo(F): 0
subparts: 0
ref_index: 0
ref_frame: 0
ref_parts + ref_time: 382

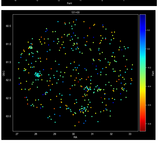
Mx: 0
My: 0
Mz: 0
Mvx: 0.09
Mvy: 0
Mvz: 0.1
```









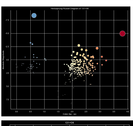


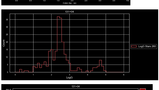
```
CM-00

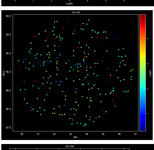
Programmer: ['Apoque']

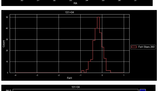
main_separator: 20
halo(F): 0
subparts: 0
ref_index: 0
ref_frame: 0
ref_parts + ref_time: 172

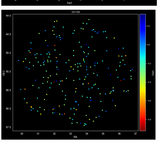
Mx: 0
My: 0
Mz: 0
Mvx: 0
Mvy: 0
Mvz: 0
```









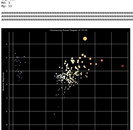


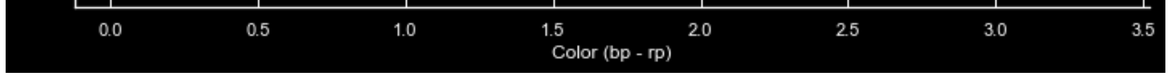
```
CM-00

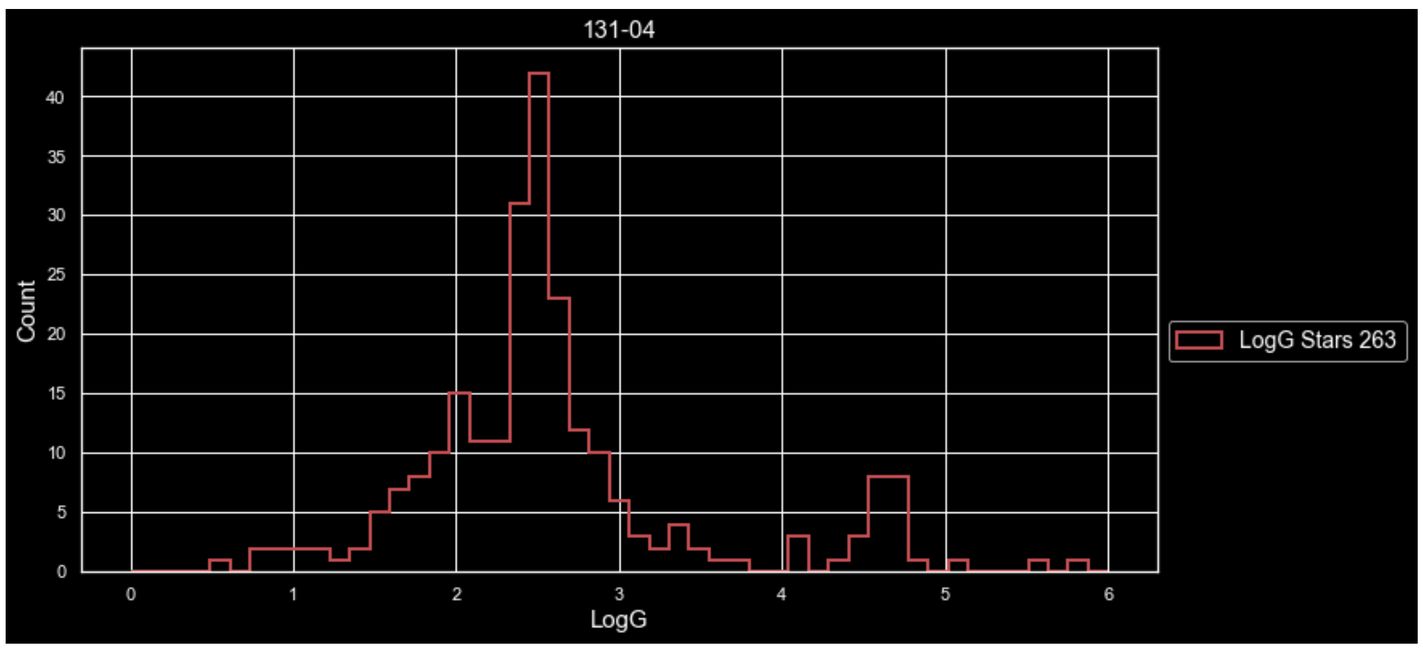
Programmer: ['Apoque']

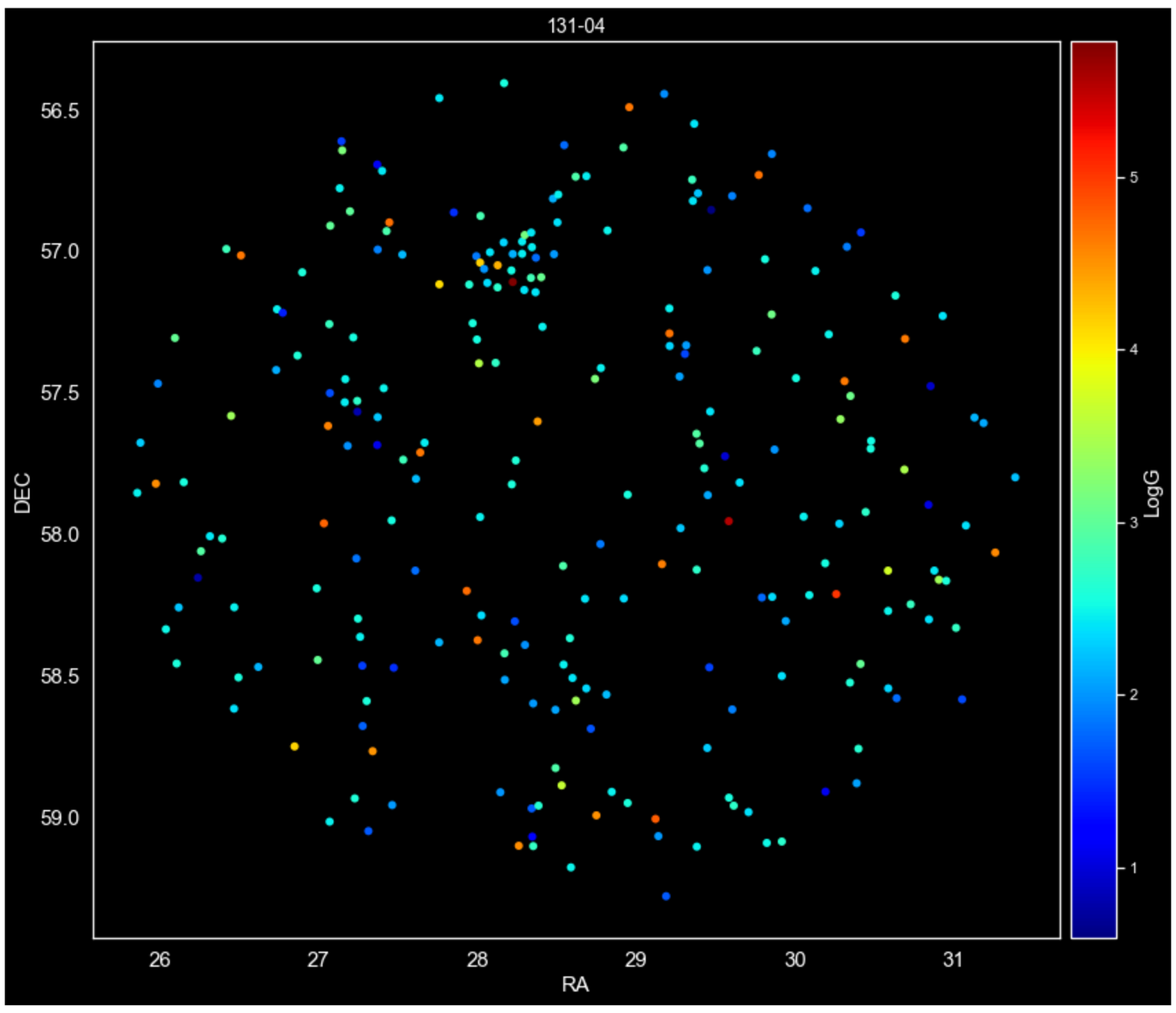
main_separator: 20
halo(F): 0
subparts: 0
ref_index: 0
ref_frame: 0
ref_parts + ref_time: 178

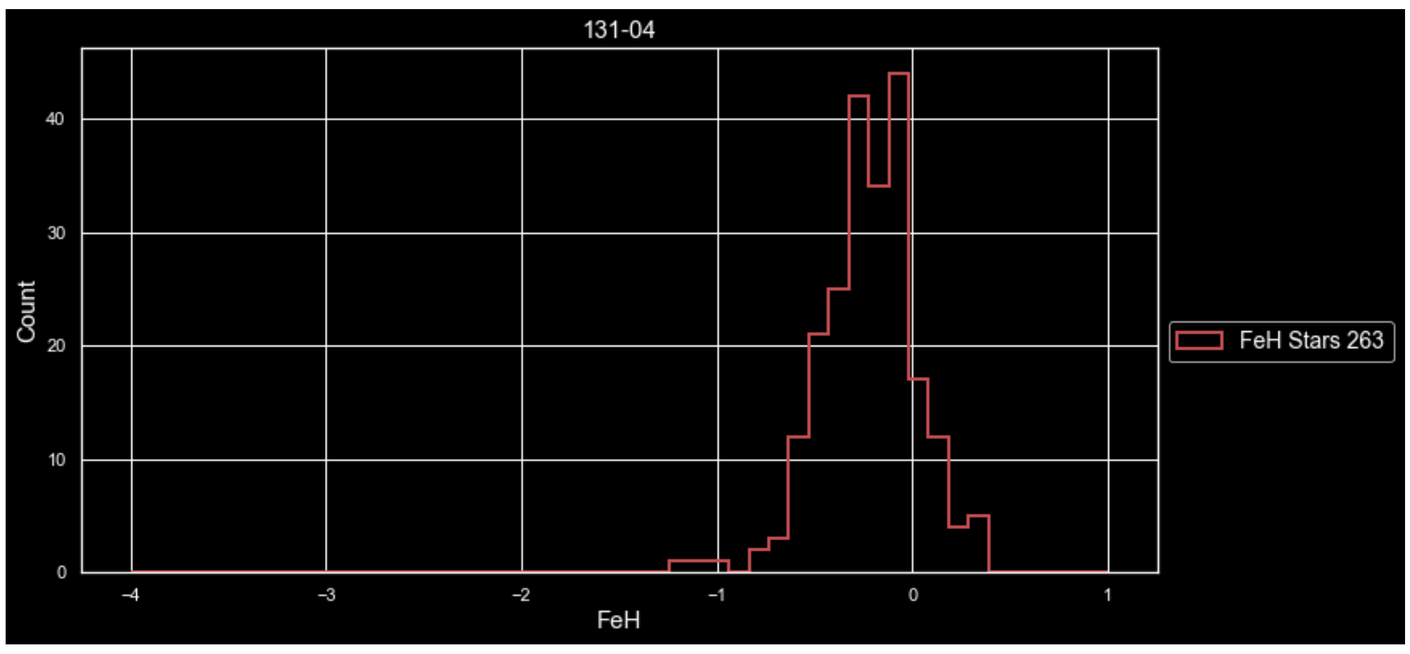
Mx: 0
My: 0
Mz: 0
Mvx: 0
Mvy: 0
Mvz: 0
```

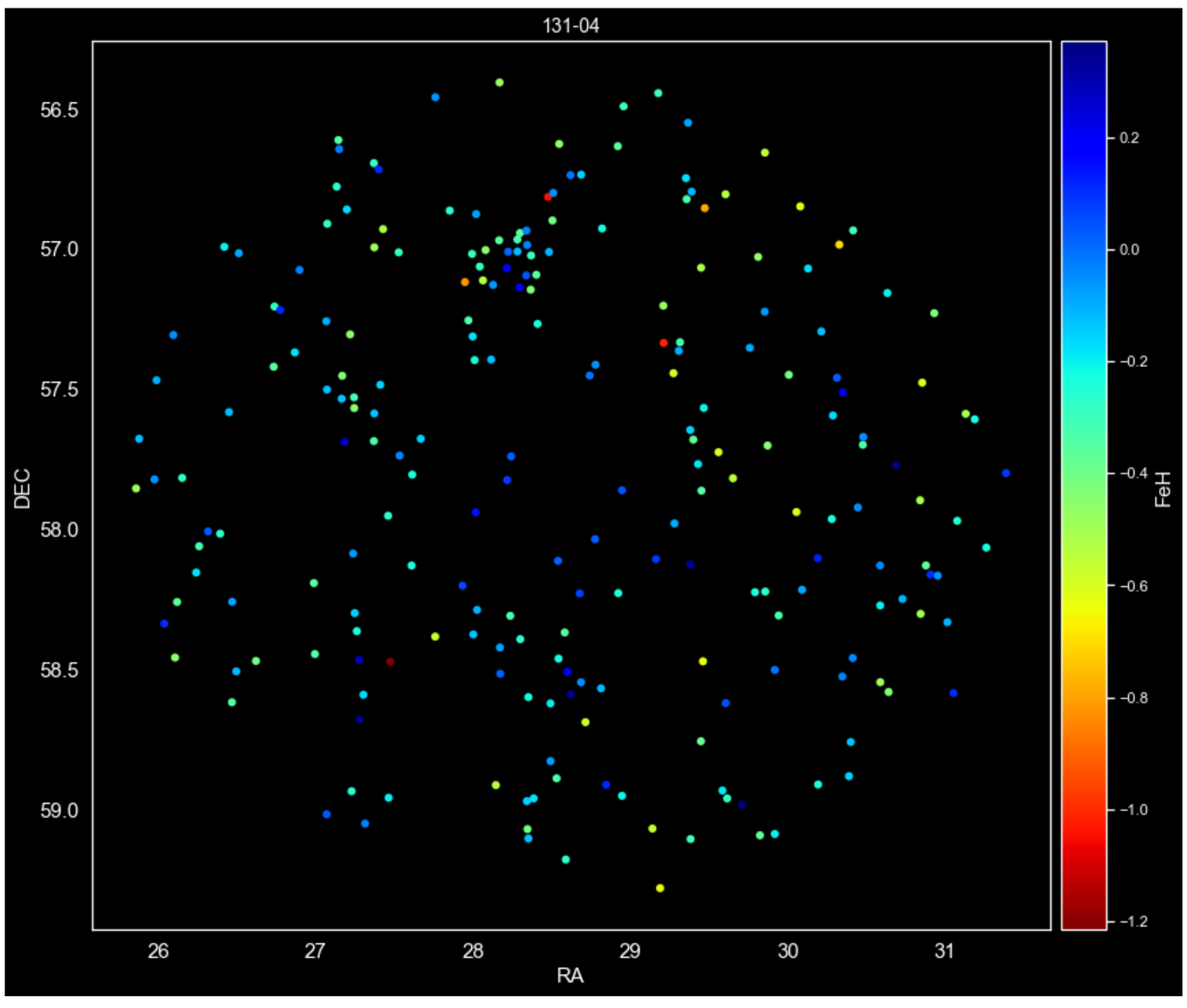



0.0
0.5
1.0
1.5
2.0
2.5
3.0
3.5
Color (bp - rp)


131-04
Count
LogG
LogG Stars 263


131-04
DEC
RA
LogG


131-04
Count
FeH
FeH Stars 263


131-04
DEC
RA
FeH

```
Done!
```

In [2]: