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

In [1]: runfile('/Users/jonathanrosales/Apogee My Field IM 2.py', wdir='/Users/jonathanrosales')
Using/jonathanrosales/anaconda3/bin/python
Loading ...

Class 0: 10
Class 1: 1
Class 2: 1040
Class 3: 5248
Class 4: 1248
Class 5: 1248
Class 6: 1248
Class 7: 1248
Class 8: 1248

Fit KCCC
Wrt: 5248
Wrt: 5248
Wrt: 5248
Wrt: 5248

#II: Stars #CCWD7

Wrt: Stars 5248

Mg_p: Stars 5248
Mg_p: Stars 10496
Mg_p: Stars 10496
Mg_p: Stars 10496

SNR_p: Stars 20896
SNR_p: Stars 41696
SNR_p: Stars 41696
SNR_p: Stars 12853

Mg_m: Stars 30848
Mg_m: Stars 61696
Mg_m: Stars 76545
Mg_m: Stars 76545

Mg_p: Stars 5248
Mg_p: Stars 7929
Mg_p: Stars 7929
Mg_p: Stars 7929

Mg_m: Stars 15288
Mg_m: Stars 15288
Mg_m: Stars 15288
Mg_m: Stars 4625

Fulfill: 1368

Subset of Fulfill 258
```

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004-LC_MGA
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006-SNL
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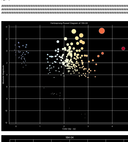
```

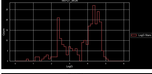
```
000-NO

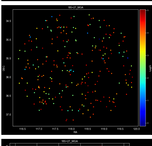
Programmer: [apogee]

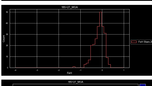
main_separator: 20
symbol: 0
subsymbol: 0
red_points: 10
red_points: 10
red_points - red_clump: 303

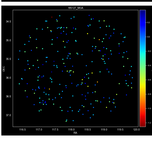
No: 0
Wrt: 0
Wrt: 0
Wrt: 0
No: 0
```


Stellar Density Plot
Red Clump
Red Giant Branch
Red Giant Tip
Red Giant Tip
Red Giant Tip









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SDrift_PLM

Programmer: ['George']

main_sequence: 100
turboFF: 0
turboSF: 0
num_galaxies: 12
num_halos: 10
num_points = num_clumps: 45

Box: 0
Step: 0
Omega: 0.27
Lambda: 0.73
Mass: 12
Mass: 12
Mass: 12
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```

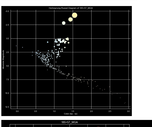

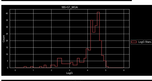

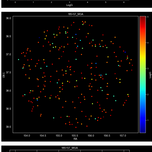

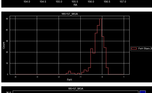

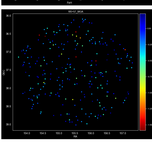

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SDS-VE_PLM

Programmer: ['George']

main_sequence: 102
turboFF: 0
turboSF: 0
num_galaxies: 10
num_halos: 10
num_points = num_clumps: 51

Box: 0
Step: 0
Omega: 0.27
Lambda: 0.73
Mass: 12
Mass: 12
Mass: 12
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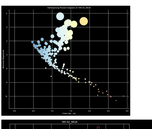

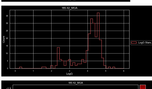

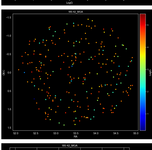

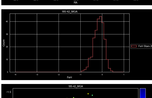

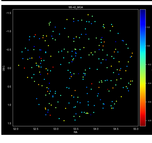

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SDS-VE

Programmer: ['George']

main_sequence: 200
turboFF: 0
turboSF: 0
num_galaxies: 10
num_halos: 10
num_points = num_clumps: 77

Box: 0
Step: 0
Omega: 0.27
Lambda: 0.73
Mass: 12
Mass: 12
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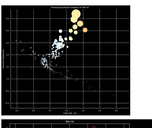

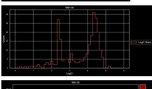

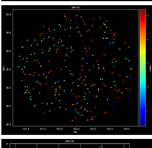

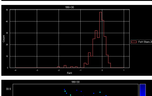

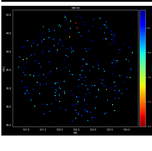

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SDS-VE_PLM

Programmer: ['William']

main_sequence: 102
turboFF: 0
turboSF: 0
num_galaxies: 10
num_halos: 10
num_points = num_clumps: 134

Box: 0
Step: 0
Omega: 0.27
Lambda: 0.73
Mass: 12
Mass: 12
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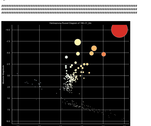

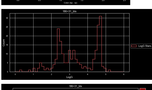

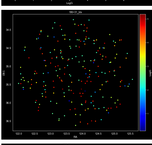

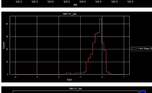

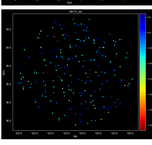

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DEN-02

Programmers: ['sanger']

main_sequence: 117
subgroup: 0
subgroup: 11
red_quality: 0
red_class: 20
red_class + red_flag: 96

Mn: 0
Mx: 0
Mn: 0
Mx: 19
Mn: 0
Mx: 0
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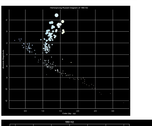

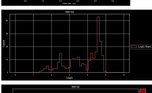

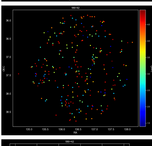

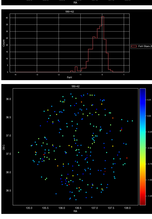

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DEN-08

Programmers: ['sanger']

main_sequence: 125
subgroup: 0
subgroup: 10
red_quality: 0
red_class: 20
red_class + red_flag: 84

Mn: 0
Mx: 0
Mn: 0
Mx: 19
Mn: 0
Mx: 0
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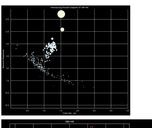

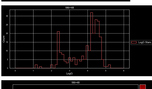

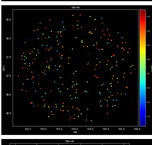

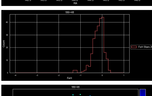

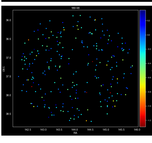

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SDSS_MAG

Programmers: ['sanger']

main_sequence: 91
subgroup: 0
subgroup: 10
red_quality: 0
red_class: 20
red_class + red_flag: 104

Mn: 0
Mx: 0
Mn: 0
Mx: 19
Mn: 0
Mx: 0
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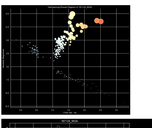

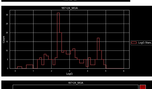

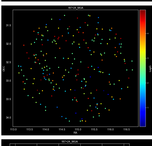

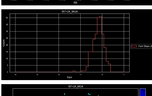

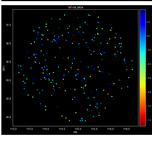

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SDSS_MAG

Programmers: ['sanger']

main_sequence: 90
subgroup: 0
subgroup: 11
red_quality: 0
red_class: 47
red_class + red_flag: 70

Mn: 0
Mx: 0
Mn: 0
Mx: 19
Mn: 0
Mx: 0
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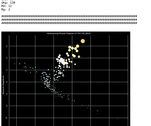

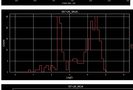

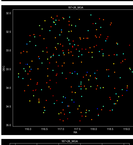

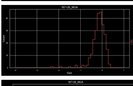

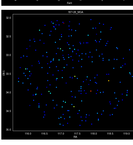


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SDT-01_PEAK

Programmer: [‘George’]

main_separator: 102
height: 28
sub_height: 14
sub_gap: 10
sub_points: 6
red_clamp: - red_clamp: 82

Ver: 0
Year: 2
Date: 15
Mon: 10
Min: 0
Sec: 0
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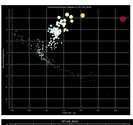

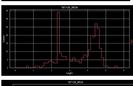

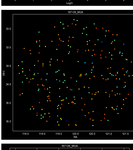

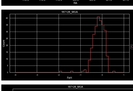

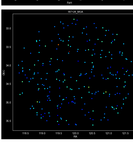


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SDT-03_PEAK

Programmer: [‘George’]

main_separator: 110
height: 28
sub_height: 14
sub_gap: 10
sub_points: 6
red_clamp: - red_clamp: 81

Ver: 0
Year: 2
Date: 15
Mon: 10
Min: 0
Sec: 0
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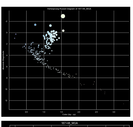

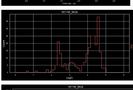

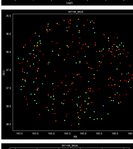

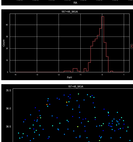

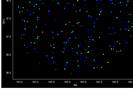


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SDT-04_PEAK

Programmer: [‘George’]

main_separator: 129
height: 28
sub_height: 14
sub_gap: 10
sub_points: 6
red_clamp: - red_clamp: 84

Ver: 0
Year: 2
Date: 15
Mon: 10
Min: 0
Sec: 0
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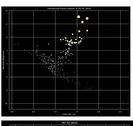

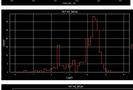

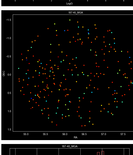

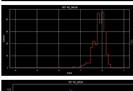

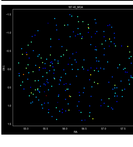


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SDT-05_PEAK

Programmer: [‘George’]

main_separator: 138
height: 28
sub_height: 14
sub_gap: 10
sub_points: 6
red_clamp: - red_clamp: 78

Ver: 0
Year: 2
Date: 15
Mon: 10
Min: 0
Sec: 0
==================================================
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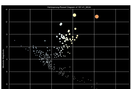
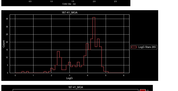
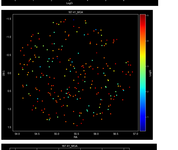
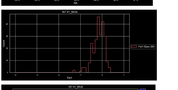
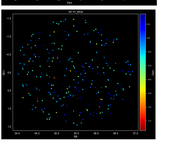
```











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100-00

Programmer: I'apogee ☿

main_sequence: 95
binaries: 5
subgiants: 0
red_giants: 100
red_clump: 100
red_giants - red_clump: 200

Mv: 25
Mk: 0
Mbp: 25
Mrp: 484
Mg: 0
Mz: 0

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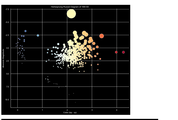

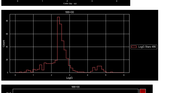

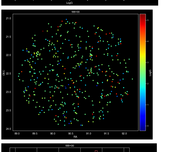

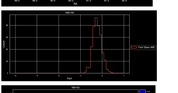

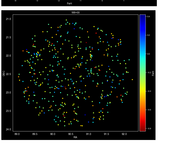

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200-00

Programmer: I'apogee ☿

main_sequence: 90
binaries: 5
subgiants: 5
red_giants: 100
red_clump: 100
red_giants - red_clump: 200

Mv: 25
Mk: 0
Mbp: 25
Mrp: 484
Mg: 0
Mz: 0

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

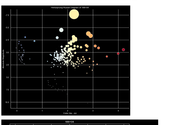

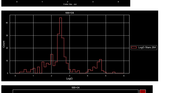

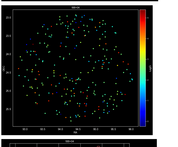

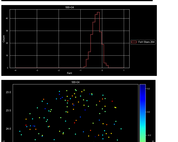

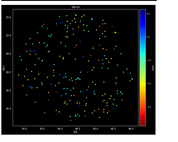

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300-00

Programmer: I'apogee ☿

main_sequence: 80
binaries: 10
subgiants: 10
red_giants: 100
red_clump: 100
red_giants - red_clump: 137

Mv: 25
Mk: 0
Mbp: 25
Mrp: 484
Mg: 0
Mz: 0

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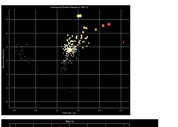
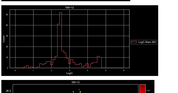
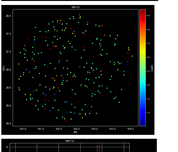
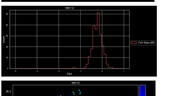
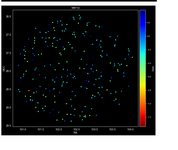
```











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400-00

Programmer: I'apogee ☿

main_sequence: 50
binaries: 25
subgiants: 25
red_giants: 100
red_clump: 100
red_giants - red_clump: 137

Mv: 25
Mk: 0
Mbp: 25
Mrp: 484
Mg: 0
Mz: 0

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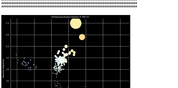

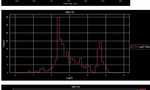
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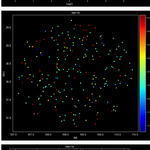

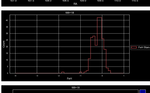
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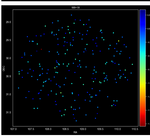

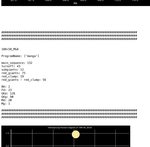

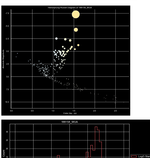

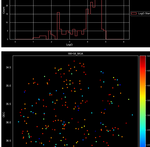

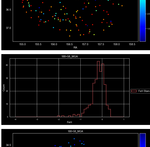

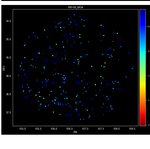

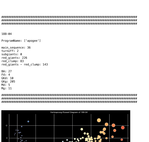

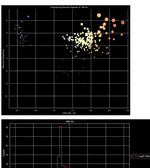

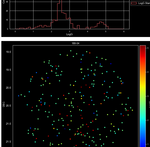

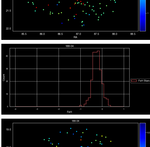

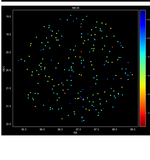

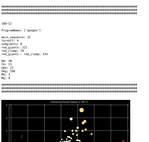

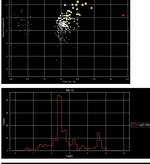

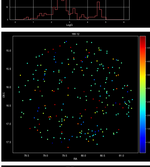

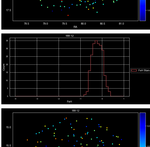

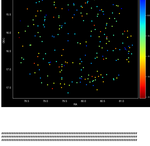

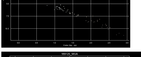

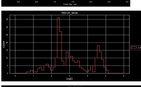

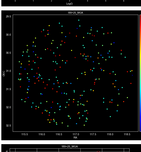

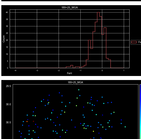

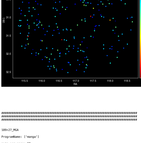

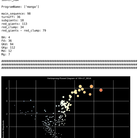

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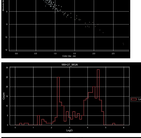

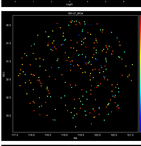

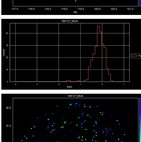

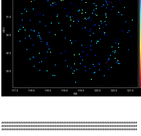

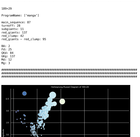

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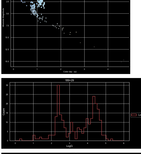

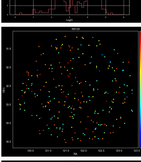

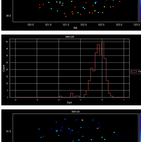

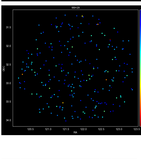

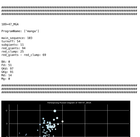

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Mmin: 12
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Ng: 2
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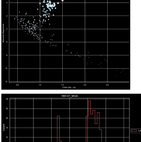

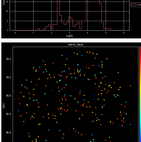

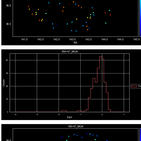

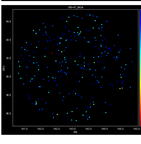

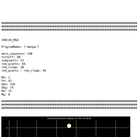

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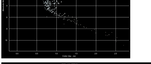

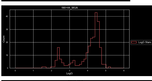

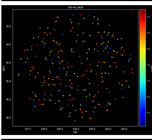

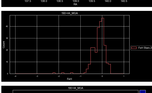

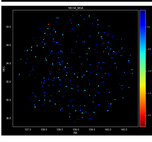

DB4HS_MUA

Programmer: I'mnqar'l

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nsplanetsy: 2
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rad_star: 100
rad_planets - rad_star: 54

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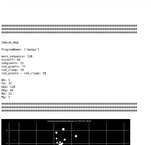
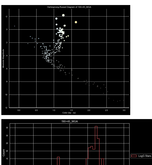
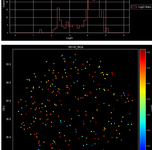
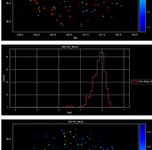
Ny: 5
Nbs: 150
Mx: 12
My: 12
Mz: 12









DB4HB

Programmer: I'mnqar'l

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rad_star: 100
rad_planets - rad_star: 43

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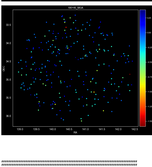
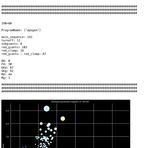
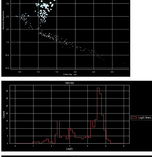
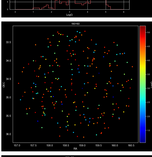
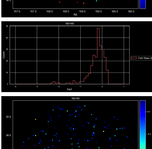
Ny: 6
Nbs: 36
Mx: 12
My: 12









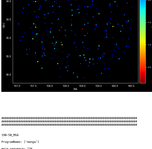


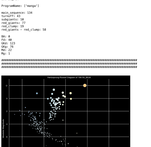
DB4SB_MUA

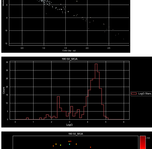
Programmer: I'mnqar'l

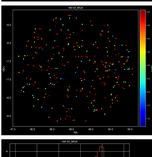
main_separator: 150
nsplanets: 4
nsplanetsx: 2
nsplanetsy: 2
rad_planet: 27
rad_star: 100
rad_planets - rad_star: 58

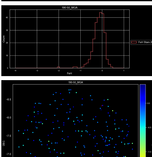
Nx: 6
Ny: 6
Nbs: 36
Mx: 12
My: 12









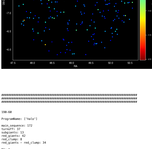


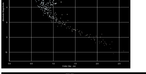
DB4BB

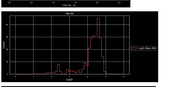
Programmer: I'ha'l'

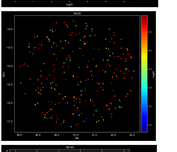
main_separator: 172
nsplanets: 4
nsplanetsx: 2
nsplanetsy: 2
rad_planet: 30
rad_star: 100
rad_planets - rad_star: 54

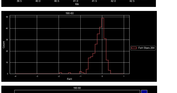
Nx: 6
Ny: 6
Nbs: 36
Mx: 12
My: 12

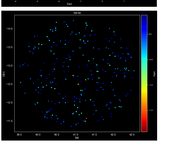










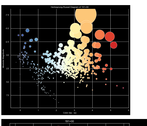


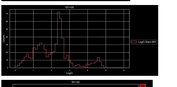
```
DS1=80

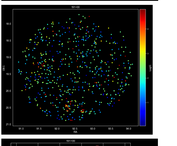
Programmer: ['apoper' 'dirk2']

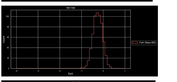
main_separator: 40
hotspot: 0
subpoints: 1
sub_separator: 10
rot_limit: 50
rot_points = rot_limit: 512

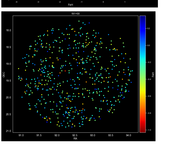
Dx: 32
Dy: 32
Dz: 48
Mxy: 160
Mz: 24
Nz: 64
```









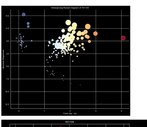


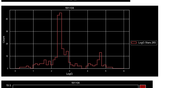
```
DS1=80

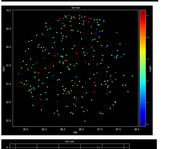
Programmer: ['apoper']

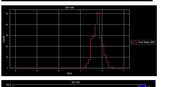
main_separator: 20
hotspot: 0
subpoints: 1
sub_separator: 10
rot_limit: 50
rot_points = rot_limit: 140

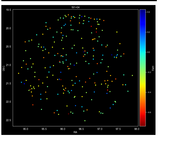
Dx: 32
Dy: 32
Dz: 48
Mxy: 160
Mz: 24
Nz: 64
```









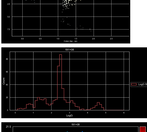


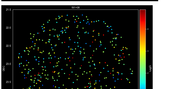
```
DS1=80

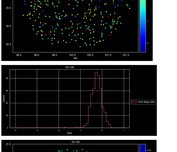
Programmer: ['dirk2']

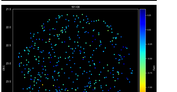
main_separator: 35
hotspot: 0
subpoints: 1
sub_separator: 15
rot_limit: 50
rot_points = rot_limit: 342

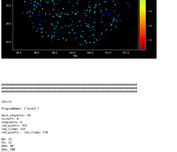
Dx: 32
Dy: 32
Dz: 48
Mxy: 160
Mz: 24
Nz: 64
```









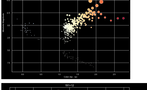


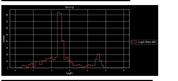
```
DS1=50

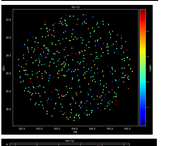
Programmer: ['dirk2']

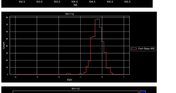
main_separator: 50
hotspot: 0
subpoints: 0
sub_separator: 0
rot_limit: 50
rot_points = rot_limit: 270

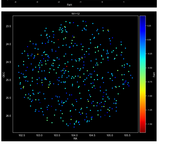
Dx: 32
Dy: 32
Dz: 48
Mxy: 160
Mz: 24
Nz: 64
```



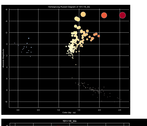


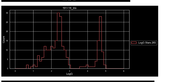


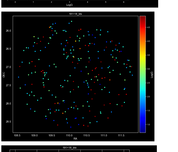


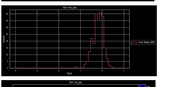


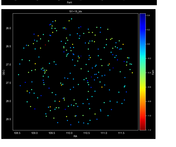
```
DS=DL_DEV
Prog=pdbmaec [ 'maicor']
mass_sequence= 10
hydro=F: 0
subgrids: 0
rad_grants: 200
rad_times: 40
rad_grants - rad_time: 155
Dec: 0
Ra: 0
Mass: 0
Mag: 17
Mz: 30
Mx: 30
```



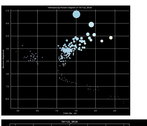


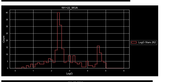


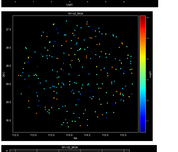


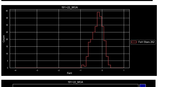


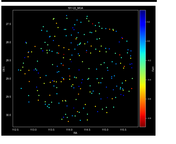
```
DS=DL_MUA
Prog=pdbmaec [ 'maicor']
mass_sequence= 0
hydro=F: 0
subgrids: 0
rad_grants: 0
rad_times: 40
rad_grants - rad_time: 147
Dec: 0
Ra: 0
Mass: 0
Mag: 23
Mz: 30
Mx: 30
```



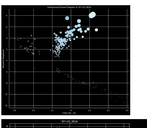


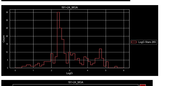


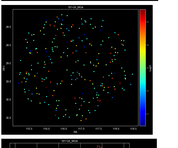


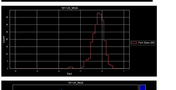


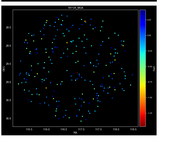
```
DS=DL_MUA
Prog=pdbmaec [ 'maicor']
mass_sequence= 0
hydro=F: 0
subgrids: 0
rad_grants: 200
rad_times: 40
rad_grants - rad_time: 148
Dec: 0
Ra: 0
Mass: 0
Mag: 23
Mz: 30
Mx: 30
```







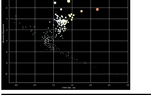


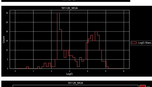


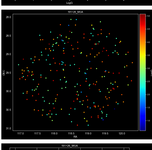
```
DS=DL_MUA
Prog=pdbmaec [ 'maicor']

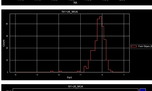
mass_sequence= 36
hydro=F: 0
subgrids: 0
rad_grants: 0
rad_times: 40
rad_grants - rad_time: 86

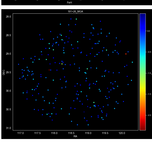
Dec: 0
Ra: 0
Mass: 85
Mag: 23
Mz: 30
Mx: 30
```

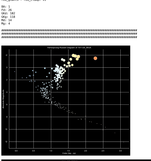


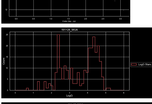








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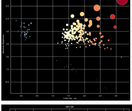

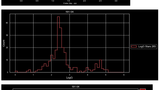

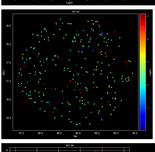

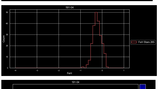

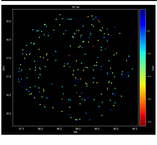

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DIC-BE

Programmer: [Valid]

main_sequence: BE
subgroup: 1
num_gates: 8
total_gates: 8
num_events = num_clumps: 322

Wo: 0
Qo: 0
Wdv: 0
Qdv: 0.29
Wsc: 0
Qsc: 0

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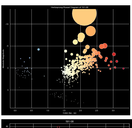

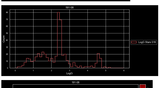

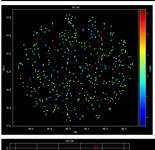

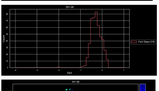

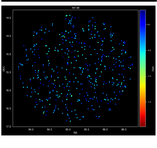

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DIC-LC

Programmer: [Valid]

main_sequence: HM
subgroup: 1
subgroups: 1
total_gates: 8
num_events = num_clumps: 339

Wo: 0
Qo: 0
Wdv: 0
Qdv: 0.29
Wsc: 0
Qsc: 0

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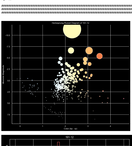

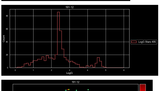

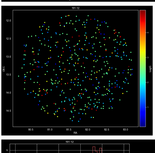

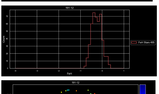

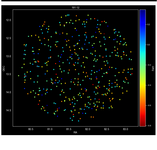

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DIC-LB_Pre

Programmer: [Valid]

main_sequence: ML
subgroup: 1
subgroups: 1
total_gates: 8
num_events = num_clumps: 330

Wo: 0
Qo: 0
Wdv: 0
Qdv: 0.29
Wsc: 0
Qsc: 0

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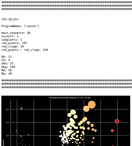

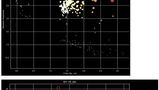

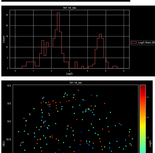

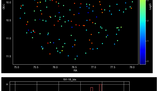

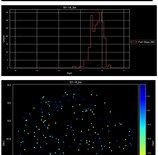

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DIC-LB_Pro

Programmer: [Valid]

main_sequence: HM
subgroup: 1
subgroups: 1
total_gates: 8
num_events = num_clumps: 332

Wo: 0
Qo: 0
Wdv: 0
Qdv: 0.29
Wsc: 0
Qsc: 0

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```

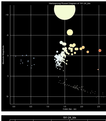

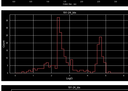

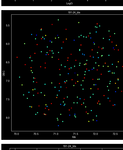

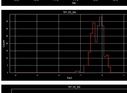

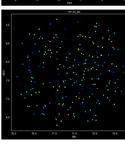


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#################################################################
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DS-07.MLA

Programmer: ['George']

main_sequence: 155
binaries: 0
background: 15
noise_points: 0
real_points: 170
real_points + real_clump: 17

Mo: 0
Mu: 0
Ma: 0
Mmu: 0
Mma: 0
Mu: 0
Mu: 0

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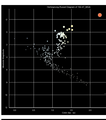
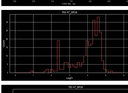
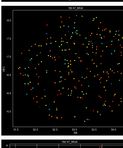
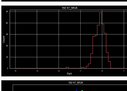
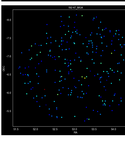
```









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DS-08.MLA

Programmer: ['George']

main_sequence: 153
binaries: 0
background: 21
noise_points: 0
real_points: 174
real_points + real_clump: 52

Mo: 0
Mu: 0
Ma: 117
Mmu: 0
Mma: 0
Mu: 0
Mu: 0

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```

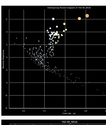

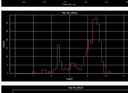

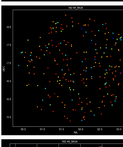

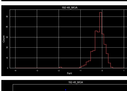

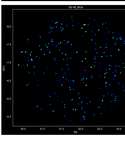


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#################################################################
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DS-09.MLA

Programmer: ['George']

main_sequence: 150
binaries: 0
background: 40
noise_points: 0
real_points: 190
real_points + real_clump: 213

Mo: 0
Mu: 0
Ma: 0
Mmu: 89
Mma: 0
Mu: 0
Mu: 0

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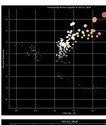
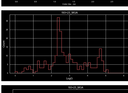
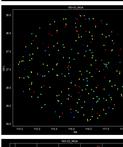
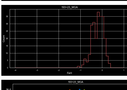
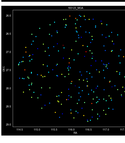
```









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#################################################################
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DS-10.MLA

Programmer: ['George']

main_sequence: 75
binaries: 0
background: 0
noise_points: 114
real_points: 0
real_points + real_clump: 84

Mo: 0
Mu: 0
Ma: 0
Mmu: 0
```
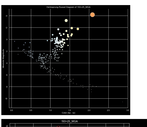
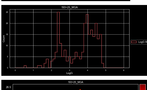
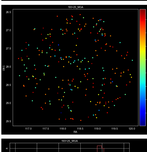
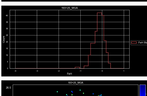
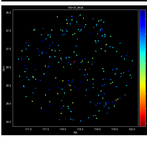



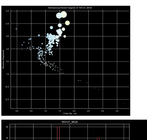


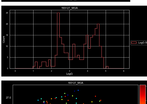


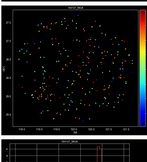


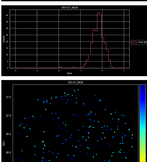


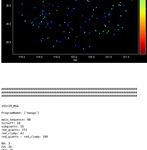
```
SDV17_PLA

Programmer: ['George']

main_sequence: 95
turnoff: 17
subgiants: 22
red_giants: 40
red_giants + red_clump: 89

Nov 4
Nov 18
Dec 16
Mar, 2019
May 3
May 17
```



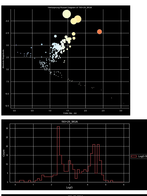


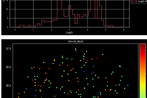


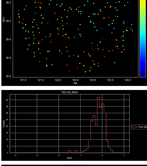


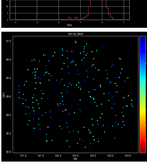


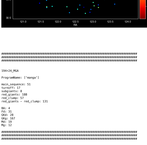
```
SDV18_PLA

Programmer: ['George']

main_sequence: 88
turnoff: 16
subgiants: 31
red_giants: 40
red_giants + red_clump: 105

Nov 4
Nov 18
Dec 16
Mar, 2019
May 3
May 17
```



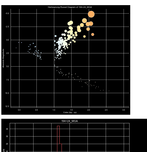


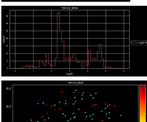


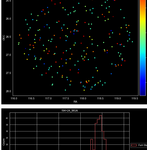


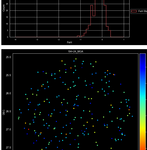


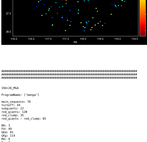
```
SDV15_PLA

Programmer: ['George']

main_sequence: 72
turnoff: 17
subgiants: 34
red_giants: 108
red_clump: 33
red_giants + red_clump: 131

Nov 4
Nov 18
Dec 16
Mar, 2019
May 3
May 17
```











```
SDV16_PLA

Programmer: ['George']

main_sequence: 70
turnoff: 17
subgiants: 21
red_giants: 40
red_clump: 39
red_giants + red_clump: 81

Nov 4
Nov 18
Dec 16
Mar, 2019
May 3
May 17
```

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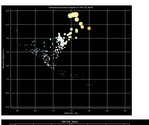

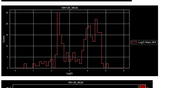

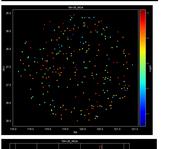

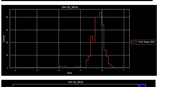

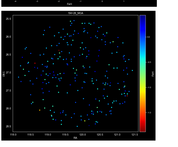

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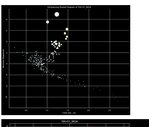
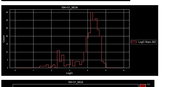
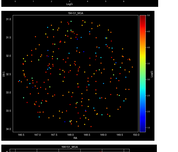
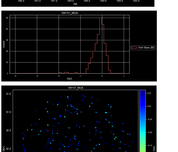
```
IDH-01_MLA

Prog-subname: [‘energy’]

mass_separator: 1E4
hsp0.5: 0.5
subgalaxies: 15
cmd_gamma: 78
cmd_cutoff: 0
cmd_gamma: -34 cmd_cliff: 40
Dc: 21
Dv: 0
dmin: 0.17
dmax: 0.7
Mg: 17
Mp: 0
```

==========





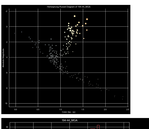


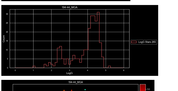


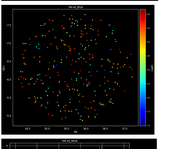
==========

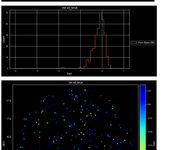
```
IDH-md_MLA

Prog-subname: [‘energy’]

mass_separator: 1E4
hsp0.5: 0.5
subgalaxies: 15
cmd_gamma: 78
cmd_cutoff: 0
cmd_gamma: -34 cmd_cliff: 50

Dc: 21
Dv: 0
dmin: 0.17
dmax: 0.7
Mg: 17
Mp: 0
```

==========





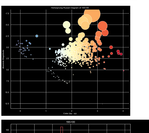


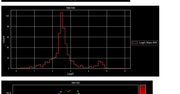


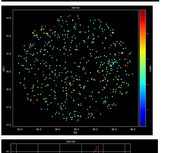
==========

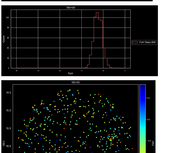
```
IDH-mD

Prog-subname: [‘unique’]

mass_separator: 1E4
hsp0.5: 0.5
subgalaxies: 15
cmd_gamma: 78
cmd_cutoff: 0
cmd_gamma: -34 cmd_cliff: 300

Dc: 21
Dv: 0
dmin: 0.17
dmax: 0.7
Mg: 17
Mp: 0
```

==========





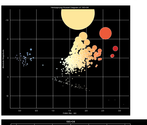


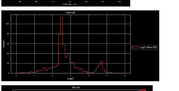


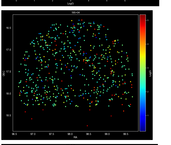
==========

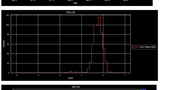
```
IDL-mD

Prog-subname: [‘unique’]

mass_separator: 1E8
hsp0.5: 0.5
subgalaxies: 15
cmd_gamma: 78
cmd_cutoff: 0
cmd_gamma: -34 cmd_cliff: 170
```

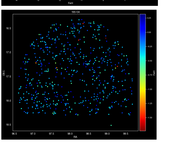
Dec: 60
Ra: 0
Mag: 20









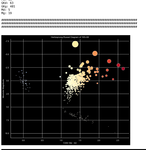


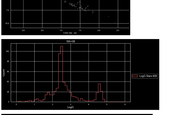
DO:60

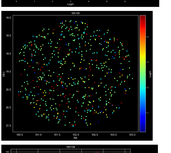
Programmer: ['apogee']

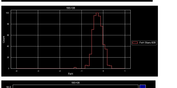
main_sequence: 50
turnoff: 0
red_giants: 0
red_giants: 123
red_giants - red_clump: 124

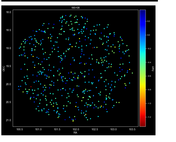
Dec: 0
Ra: 0
Mag: 20
Dec: 60
Ra: 0









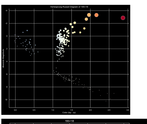


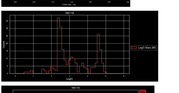
DO:60

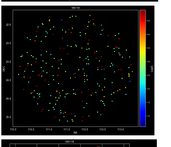
Programmer: ['apogee']

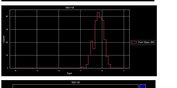
main_sequence: 50
turnoff: 0
red_giants: 0
red_giants: 123
red_clump: 55
red_giants - red_clump: 124

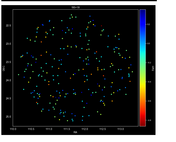
Dec: 0
Ra: 0
Mag: 20
Dec: 60
Ra: 0









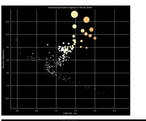


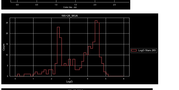
DO:60_MAX

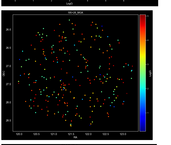
Programmer: ['apogee']

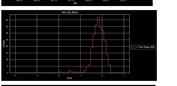
main_sequence: 50
turnoff: 0
red_giants: 0
red_giants: 123
red_clump: 55
red_giants - red_clump: 88

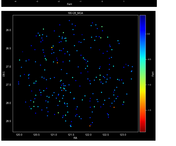
Dec: 0
Ra: 0
Mag: 20
Dec: 60
Ra: 0









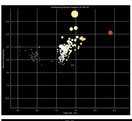


DO:60

Programmer: ['apogee']

main_sequence: 0
turnoff: 0
red_giants: 0
red_clump: 55
red_giants - red_clump: 100

Nx: 0
Ny: 0
Nz: 0
Mvir: 0
Mvir: 0
Mg: 0
Mg: 0

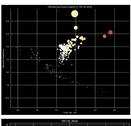


STI-05.MOA

Progenitors: ['merger']

main_sequence: 72
turnoff: 0
subgiants: 0
main_galaxy: 0
red_giants: 28
red_giants + red_clump: 115

Nx: 0
Ny: 0
Nz: 0
Mvir: 100
Mvir: 0
Mg: 0
Mg: 0

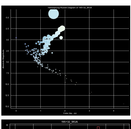


STI-12.MOA

Progenitors: ['merger']

main_sequence: 165
turnoff: 25
subgiants: 0
main_galaxy: 0
red_giants: 62
red_giants + red_clump: 67

Nx: 0
Ny: 0
Nz: 0
Mvir: 0
Mvir: 0
Mg: 0
Mg: 0

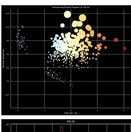


STI-00

Progenitors: ['merger']

main_sequence: 77
turnoff: 0
subgiants: 0
main_galaxy: 0
red_giants: 100
red_giants + red_clump: 300

Nx: 0
Ny: 0
Nz: 0
Mvir: 0
Mvir: 0
Mg: 0
Mg: 0

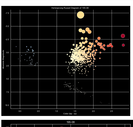


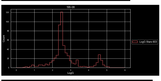
STI-00

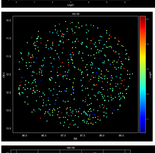
Progenitors: ['merger']

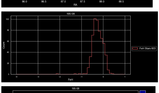
main_sequence: 72
turnoff: 0
subgiants: 0
main_galaxy: 0

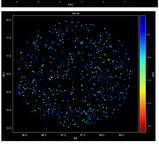
real_points: 523
Dec: 0.0
real_clump: 539
Dec: 10
Mass: 10
Mass: 10
Mass: 10
Mass: 10
Mass: 10









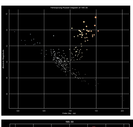


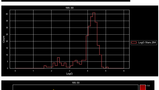
DD-30

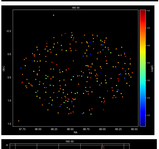
Programmes: ['Halo']

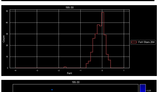
mass_expansion: 126
turbulf: 10
subgamma: 0
subgamma: 10
Mass: 10
real_points: 40
real_clump: 42

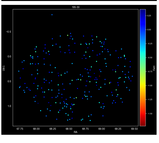
Dec: 0.
Mass: 10
Mass: 10
Mass: 10
Mass: 0
Mass: 0









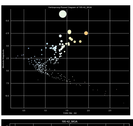


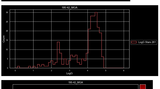
DD-0LMA

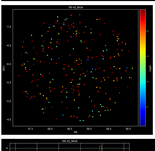
Programmes: ['merge']

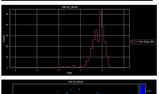
mass_expansion: 125
turbulf: 10
subgamma: 10
subgamma: 10
Mass: 10
real_points: 40
real_clump: 71

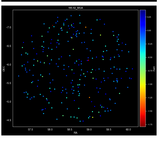
Mass: 0
Dec: 10
Mass: 10
Mass: 10
Mass: 10
Mass: 0









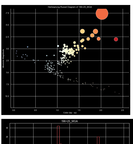


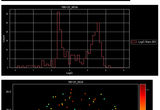
DD-0LMA

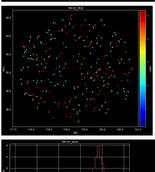
Programmes: ['merge']

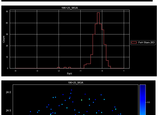
mass_expansion: 30
turbulf: 10
subgamma: 10
real_points: 340
Mass: 10
real_points: 92

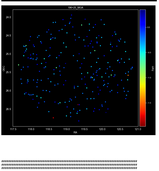
Dec: 0
Mass: 10
Mass: 10
Mass: 10
Mass: 0







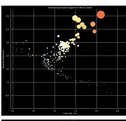


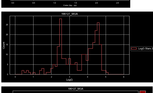


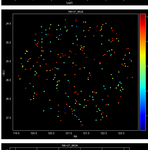
DD-0LMA

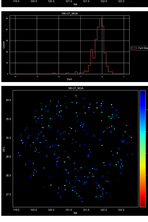
Programmes: ['merge']

```
main_separator: 50
Prog:mpdbase: [ 'energy' ]
subgroup: 0
subgroupno: 0
cmd_gamma: 36
cmd_gamma: [ 36 ]
run_gamma: [ 36_flag: 0]

Nx: 5
Ny: 10
dxp: 20
dyp: 20
Mx: 27
My: 7
```

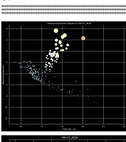


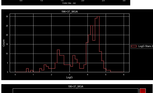


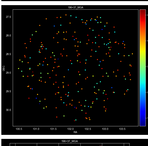


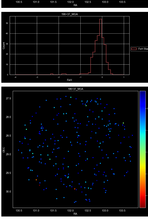



```
CD61CD_MLA

Prog:mpdbase: [ 'energy' ]

main_separator: 110
Prog:mpdbase: [ ]
subgroupno: 0
cmd_gamma: 36
cmd_gamma: [ 36 ]
run_gamma: [ 36_flag: 78

Nx: 5
Ny: 10
dxp: 20
dyp: 20
Mx: 27
My: 7
```

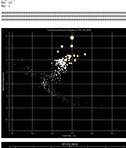


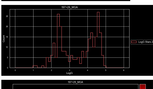


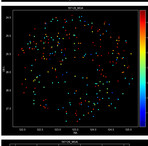


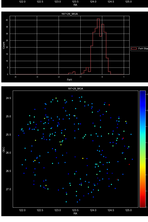



```
CD70CD_MLA

Prog:mpdbase: [ 'energy' ]

main_separator: 90
Prog:mpdbase: [ ]
subgroupno: 0
cmd_gamma: 36
cmd_gamma: [ 36 ]
run_gamma: [ 36_flag: 94

Nx: 5
Ny: 10
dxp: 20
dyp: 20
Mx: 27
My: 7
```

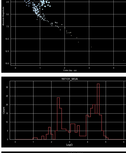


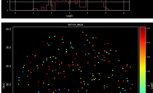


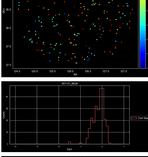


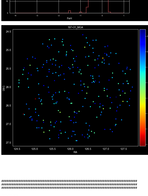



```
CD70CD_MLA

Prog:mpdbase: [ 'energy' ]

main_separator: 90
Prog:mpdbase: [ ]
subgroupno: 1
cmd_gamma: 37
cmd_gamma: [ 37 ]
run_gamma: [ 37_flag: 89

Nx: 5
Ny: 10
dxp: 20
dyp: 20
Mx: 27
My: 7
```



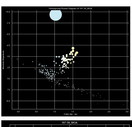


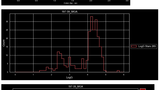


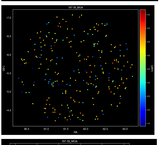


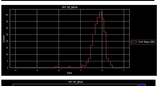

```
CD70CD_MLA
```

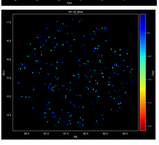
```
Programmer: ['Kenny']

main_separator: 120
hurdle: 80
hurdle_sep: 20
red_points: 50
red_sep: 20
red_points + red_time: 80

Mo: 0
Ko: 0
Ho: 0
Ko: 29
Mo: 29
No: 0
```



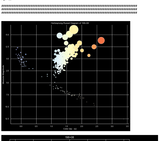


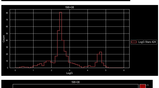


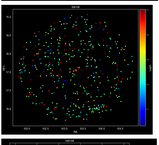


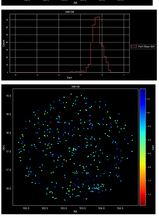



```
Programmer: ['Kenny']

main_separator: 55
hurdle: 5
hurdle_sep: 5
red_points: 110
red_sep: 5
red_points + red_time: 230

Mo: 0
Ko: 0
Ho: 0
Ko: 29
Mo: 29
No: 0
```

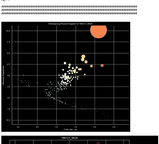


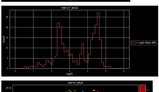


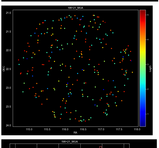


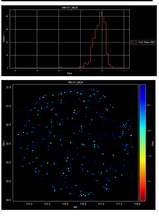



```
Programmer: ['Kenny']

main_separator: 55
hurdle: 5
hurdle_sep: 5
red_points: 110
red_sep: 5
red_points + red_time: 165

Mo: 0
Ko: 0
Ho: 0
Ko: 29
Mo: 29
No: 0
```

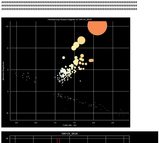


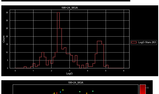


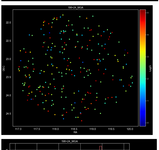


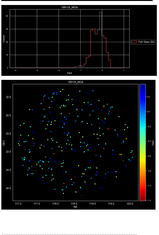



```
Programmer: ['Kenny']

main_separator: 55
hurdle: 5
hurdle_sep: 5
red_points: 110
red_sep: 5
red_points + red_time: 140

Mo: 0
Ko: 0
Ho: 0
Ko: 29
Mo: 29
No: 0
```

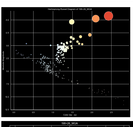


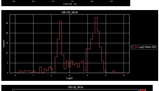


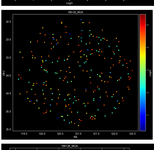


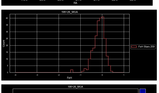


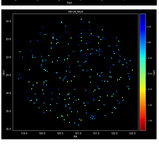
```
CDS:CD_PLA
Programmes: ['mengo']

main_separator: 100
hunsort: 35
subgroups: 5
min_points: 40
red_clump: 40
red_clump_ratio: red_clump: 70

Dec: 0
Ra: 0
dDec: 0
dRa: 360
Mag: 10
Mg: 0
```



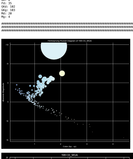


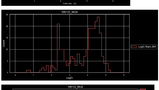


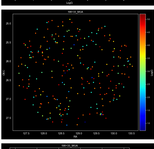


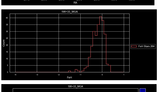


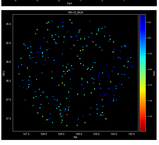

```
CDS:CD_PLA
Programmes: ['mengo']

main_separator: 115
hunsort: 35
subgroups: 5
min_points: 40
red_clump: 40
red_clump_ratio: red_clump: 70

Dec: 0
Ra: 0
dDec: 0
dRa: 360
Mag: 10
Mg: 0
```



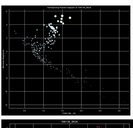


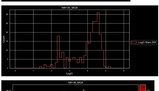


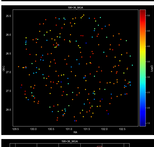


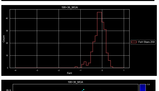


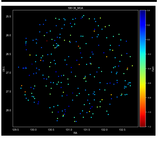

```
CDS:CD_PLA
Programmes: ['mengo']

main_separator: 120
hunsort: 35
subgroups: 5
min_points: 40
red_clump: 40
red_clump_ratio: red_clump: 50

Dec: 0
Ra: 0
dDec: 0
dRa: 360
Mag: 10
Mg: 0
```



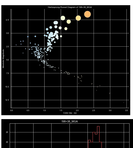


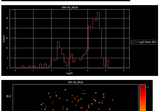


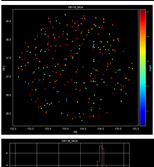


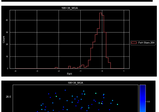


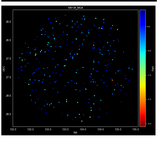

```
CDS:CD_PLA
Programmes: ['mengo']

main_separator: 125
hunsort: 35
subgroups: 5
min_points: 40
red_clump: 40
red_clump_ratio: red_clump: 67

Dec: 0
Ra: 0
dDec: 0
dRa: 360
Mag: 10
Mg: 0
```











****

DB=EL_PLA

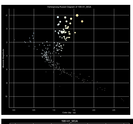
****

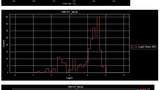
Programmer: ['Sergio']

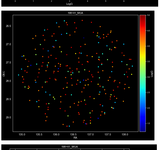
main_sequence: 108
turnoff: 71
subgiants: 0
red_giants: 38
red_clump: 0
red_giants - red_clump: 38

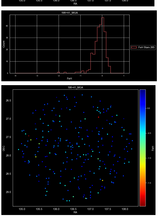
Dc: 1
Dm: 1
Ddm: 12
Mdm: 12
Mp: 17
Mc: 17

****









****

DB=BB

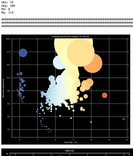
****

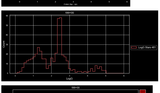
Programmer: ['Victor']

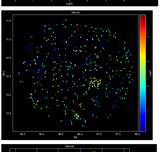
main_sequence: 98
turnoff: 71
subgiants: 0
red_giants: 41
red_clump: 0
red_giants - red_clump: 41

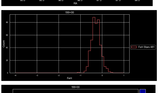
Dc: 35
Dm: 35
Ddm: 6
Mdm: 29
Mp: 29
Mc: 29

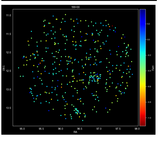
****











****

DB=BB

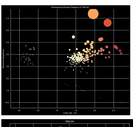
****

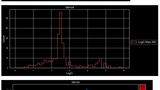
Programmer: ['Jasper']

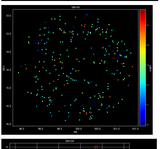
main_sequence: 97
turnoff: 71
subgiants: 0
red_giants: 35
red_clump: 0
red_giants - red_clump: 35

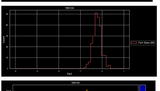
Dc: 0
Dm: 0
Ddm: 0
Mdm: 29
Mp: 29
Mc: 29

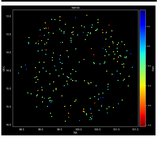
****











****

DB=OC

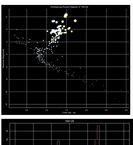
****

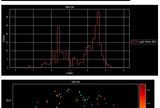
Programmer: ['Sergio']

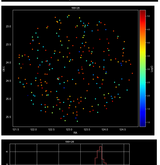
main_sequence: 111
turnoff: 77
subgiants: 0
red_giants: 57
red_clump: 0
red_giants - red_clump: 84

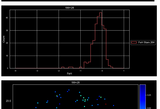
Dc: 0
Dm: 0
Ddm: 104
Mdm: 104
Mp: 104
Mc: 0

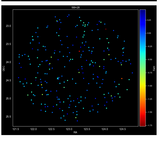
****











```
CEN:BL,MLA
Programmer: ['Harpo']

main_separator: 50
subsection: 0
subsubsection: 0
subsubsubsection: 0
red_points: 0
red_points - red_flimp: 50

Mo: 0
Dd: 0
Hh: 19
Mm: 43
Ss: 17
Ms: 0
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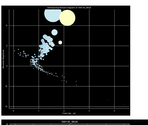
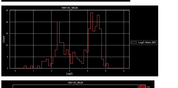
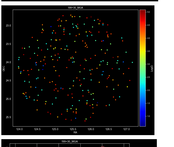
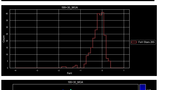
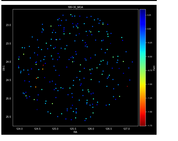






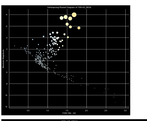


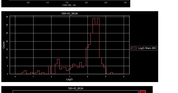


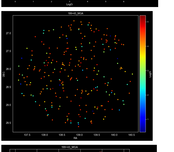

```
CEN:BL,MLA
Programmer: ['Harpo']

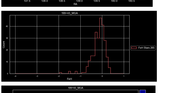
main_separator: 120
subsection: 0
subsubsection: 0
subsubsubsection: 0
red_points: 0
red_points - red_flimp: 42

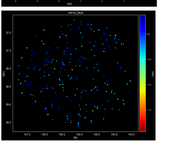
Mo: 0
Dd: 0
Hh: 19
Mm: 43
Ss: 17
Ms: 0
```







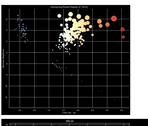


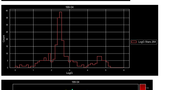


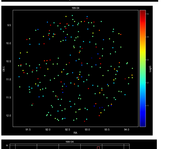

```
CEN:BM
Programmer: ['Sampson']

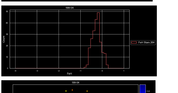
main_separator: 50
subsection: 0
subsubsection: 0
subsubsubsection: 0
red_points: 0
red_points - red_flimp: 101

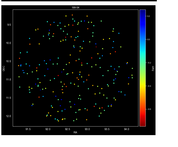
Mo: 0
Dd: 0
Hh: 19
Mm: 43
Ss: 17
Ms: 0
```







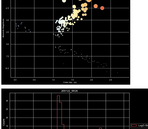


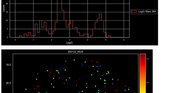


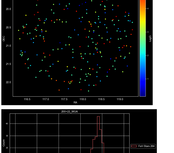

```
CEN:CL,MLA
Programmer: ['Harpo']

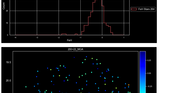
main_separator: 50
subsection: 0
subsubsection: 0
subsubsubsection: 0
red_points: 0
red_points - red_flimp: 140

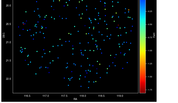
Mo: 0
Dd: 0
Hh: 19
Mm: 43
Ss: 17
Ms: 0
```











```
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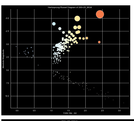
2DR-CL_M10

Programmer: ['George']

main_sequence: 10
turnoff: 8
subgiant: 9
red_giant: 200
HB_point: 300
red_giants = red_clump: 145

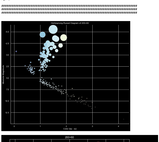
Mv: 5
Mb: 6
Mmv: 27
Mmb: 28
Mc: 0
Mmc: 0
==========================================
==========================================
```

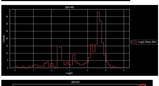


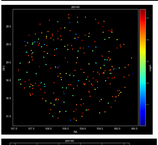
```
2DR-HM
Propagation: ['epsilon']

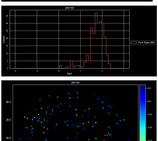
main_separator: 100
lumpsize: 0.5
subgrainsz: 0
min_cluster: 30
rel_clusterz: 0
rel_points = rel_clump: 75

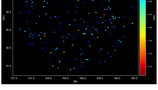
Nx: 1
Ny: 1
dx: 20
dy: 20
Nz: 1
Nv: 1
```







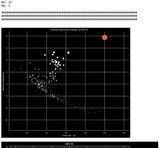


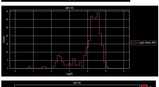


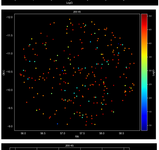

```
2DR-HS
Propagation: ['half']

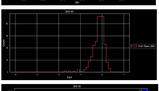
main_separator: 50
lumpsize: 0.5
subgrainsz: 0
min_cluster: 30
rel_clusterz: 0
rel_points = rel_clump: 44

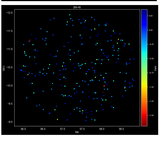
Nx: 4
Ny: 1
dx: 20
dy: 20
Nz: 1
Nv: 1
```







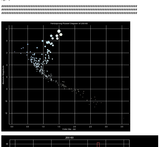


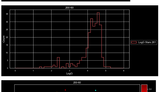


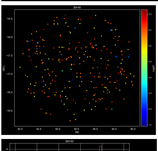

```
2DR-SM
Propagation: ['half']

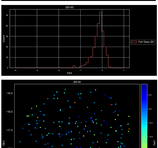
main_separator: 22.2
lumpsize: 0.5
subgrainsz: 0
min_cluster: 30
rel_clusterz: 0
rel_points = rel_clump: 48

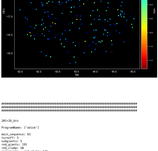
Nx: 1
Ny: 1
dx: 20
dy: 20
Nz: 1
Nv: 1
```







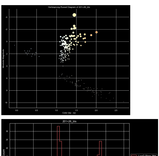


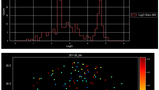


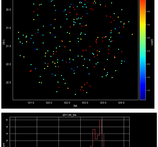

```
2DR-SN_Dfn
Propagation: ['half']

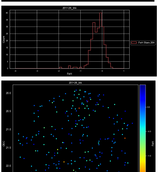
main_separator: 50
lumpsize: 0.5
subgrainsz: 0
min_cluster: 30
rel_clusterz: 0
rel_points = rel_clump: 141

Nx: 1
Ny: 1
dx: 20
dy: 20
Nz: 1
Nv: 1
```









```
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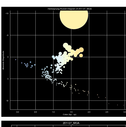
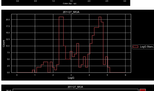
DR+57_PEAK

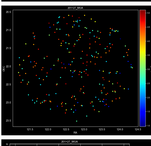
Programname: ['merge']

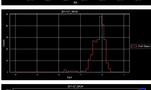
mask_separation: 50
kernel: 15
subpixels: 31
rad_pixels: 125
rad_clump: 40
rad_pixels - rad_clump: 90

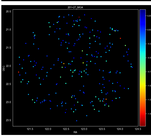
Dec: 0
Year: 2
Mon: 10
Day: 29
Hour: 17
Min: 0
Sec: 0
==========================================
==========================================
```












```
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DR+58

Programname: ['merge']

mask_separation: 50
kernel: 15
subpixels: 31
rad_pixels: 125
rad_clump: 40
rad_pixels - rad_clump: 75

Dec: 0
Year: 2
Mon: 10
Day: 29
Hour: 17
Min: 0
Sec: 0
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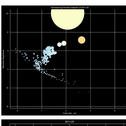
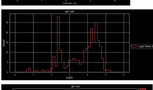
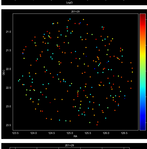
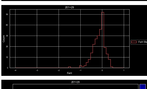
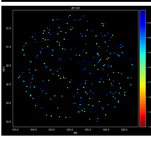
```












```
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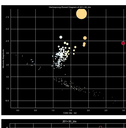
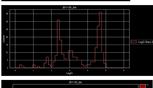
DR+58_peak

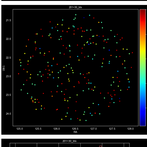
Programname: ['value']

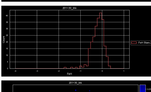
mask_separation: 0
kernel: 0
subpixels: 0
rad_pixels: 125
rad_clump: 40
rad_pixels - rad_clump: 113

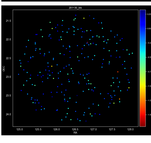
Dec: 0
Year: 2
Mon: 10
Day: 29
Hour: 17
Min: 0
Sec: 0
==========================================
==========================================
```









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DR+57_PEAK

Programname: ['merge']

mask_separation: 122
kernel: 15
subpixels: 31
rad_pixels: 40
rad_clump: 20
rad_pixels - rad_clump: 71

Dec: 0
Year: 2
Mon: 11
Day: 12
Hour: 17
Min: 0
Sec: 0
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==========================================
```

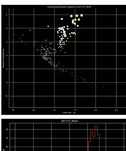

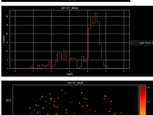

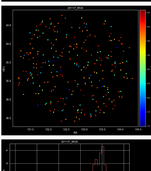

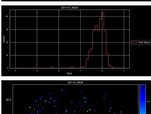

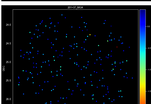

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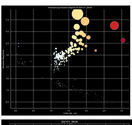
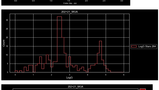
DECIS_MLA

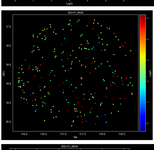
Programkamen: ['mango']

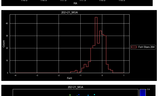
main_sequence: 55
turboFit: 0
subgiants: 0
red_giants: 25
red_giants: 30
red_giants + red_clump: 100

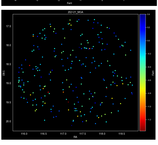
Nr: 0
Nr: 1
Nr: 2
Nr: 19
Nr: 20
Nr: 21
==========================================
==========================================
```

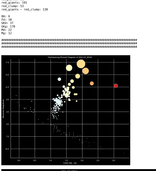










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DECIS_MLA

Programkamen: ['mango']

main_sequence: 50
turboFit: 0
subgiants: 25
red_giants: 25
red_giants: 25
red_giants + red_clump: 130

Nr: 0
Nr: 1
Nr: 2
Nr: 19
Nr: 20
Nr: 21
==========================================
==========================================
```


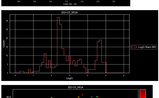

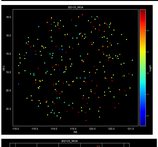

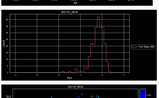

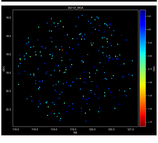


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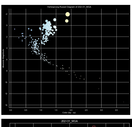
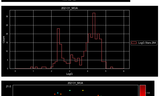
DECIS_MLA

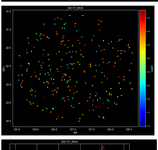
Programkamen: ['mango']

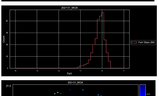
main_sequence: 100
turboFit: 0
subgiants: 0
red_giants: 0
red_giants: 0
red_giants + red_clump: 66

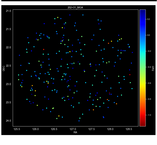
Nr: 0
Nr: 1
Nr: 2
Nr: 19
Nr: 20
Nr: 21
==========================================
==========================================
```












```
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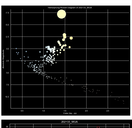
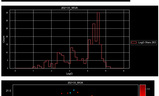
DECIS_MLA

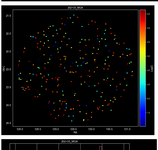
Programkamen: ['mango']

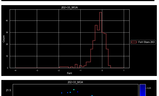
main_sequence: 125
turboFit: 0
subgiants: 25
red_giants: 25
red_giants: 25
red_giants + red_clump: 40

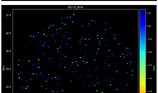
Nr: 0
Nr: 1
Nr: 2
Nr: 19
Nr: 20
Nr: 21
==========================================
==========================================
```











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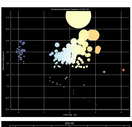
2010-00

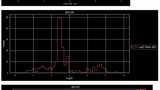
Programmer: ['spaque']

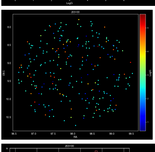
```
main_separator: 32
subgroup: 0
subgroupsize: 0
num_quantos: 213
num_bins: 20
num_quantos = num_clumps: 136
```

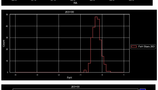
Nx: 20
Ny: 20
Nz: 20
Mmin: 10
Mmax: 4
Mp: 0

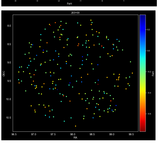
==========











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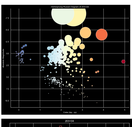
2010-40

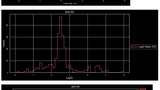
Programmer: ['spaque']

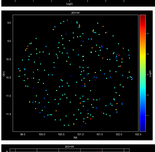
```
main_separator: 16
subgroup: 0
subgroupsize: 0
num_quantos: 213
num_bins: 20
num_quantos = num_clumps: 276
```

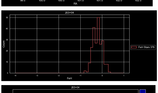
Nx: 20
Ny: 20
Nz: 20
Mmin: 10
Mmax: 4
Mp: 0

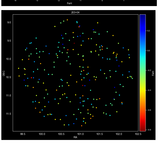
==========











==========

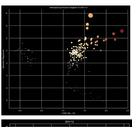
2010-10

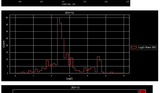
Programmer: ['spaque']

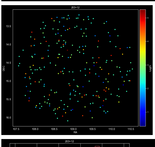
```
main_separator: 32
subgroup: 0
subgroupsize: 0
num_quantos: 213
num_bins: 20
num_quantos = num_clumps: 133
```

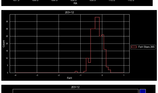
Nx: 20
Ny: 20
Nz: 20
Mmin: 10
Mmax: 4
Mp: 0

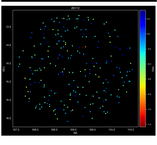
==========











==========

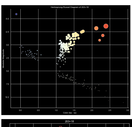
2010-20

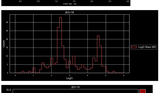
Programmer: ['spaque']

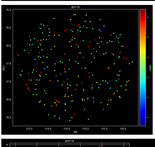
```
main_separator: 16
subgroup: 0
subgroupsize: 0
num_quantos: 213
num_bins: 20
num_quantos = num_clumps: 133
```

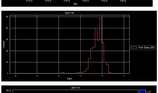
Nx: 20
Ny: 20
Nz: 20
Mmin: 10
Mmax: 4
Mp: 0

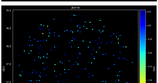
==========

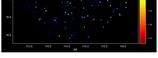










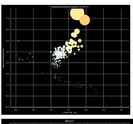


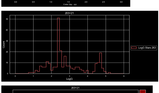
```
==========================================================
==========================================================
2014-11

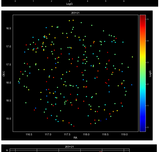
Program name: ['merge']

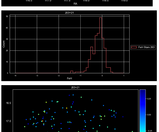
main_separation: 90
turnoff: 19
subgiants: 0
red_giants: 50
red_giants + red_clump: 135

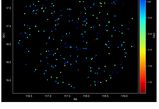
Ra: 0
Dec: 0
Ra: 20
Dec: 180
Ra: 0
Dec: 0
==========================================================
==========================================================
```









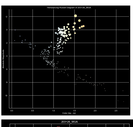


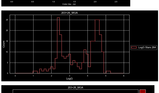

```
==========================================================
==========================================================
2014-11_MS4

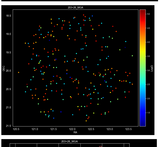
Program name: ['merge']

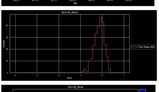
main_separation: 180
turnoff: 19
subgiants: 0
red_giants: 50
red_giants + red_clump: 86

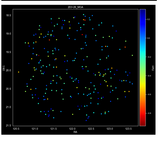
Ra: 0
Dec: 0
Ra: 20
Dec: 180
Ra: 0
Dec: 0
==========================================================
==========================================================
```









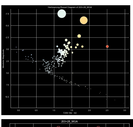


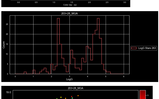

```
==========================================================
==========================================================
2014-11_MS6

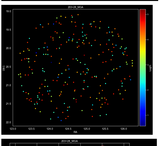
Program name: ['merge']

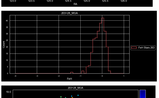
main_separation: 180
turnoff: 19
subgiants: 0
red_giants: 50
red_giants + red_clump: 70

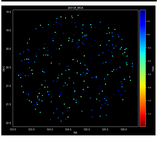
Ra: 0
Dec: 0
Ra: 20
Dec: 180
Ra: 0
Dec: 0
==========================================================
==========================================================
```









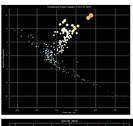


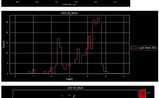

```
==========================================================
==========================================================
2014-11_MS8

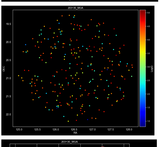
Program name: ['merge']

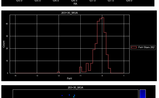
main_separation: 180
turnoff: 19
subgiants: 0
red_giants: 50
red_giants + red_clump: 67

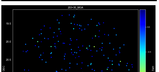
Ra: 0
Dec: 0
Ra: 20
Dec: 180
Ra: 0
Dec: 0
==========================================================
==========================================================
```

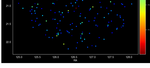










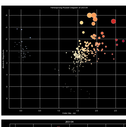


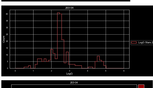
2010-00

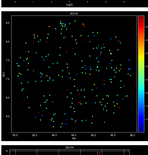
Programmer: I'spaper I

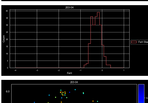
main_separator: 0
hurst: 0.5
subpoints: 0
cut_frac: 0.25
ref_points: 0
ref_clump: ref_clump: 162

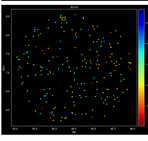
Nx: 12
Ny: 12
Nz: 12
Mpc: 0.5
Mag: 0
Ma: 0









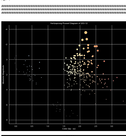


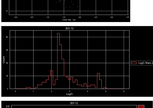
2011-12

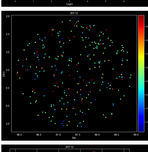
Programmer: I'spaper I

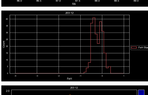
main_separator: 0
hurst: 0.5
subpoints: 0
cut_frac: 0.25
ref_points: 0
ref_clump: ref_clump: 156

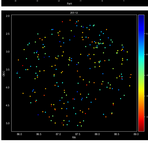
Nx: 16
Ny: 16
Nz: 16
Mpc: 100
Mag: 0
Ma: 0









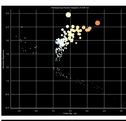


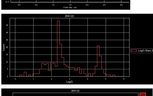
2000-13

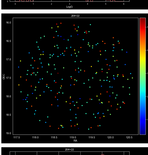
Programmer: I'ssaper I

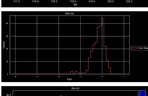
main_separator: 50
hurst: 0.5
subpoints: 0
cut_frac: 0.25
ref_points: 100
ref_clump: ref_clump: 143

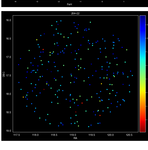
Nx: 8
Ny: 8
Nz: 8
Mpc: 25
Mag: 0
Ma: 0









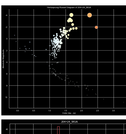


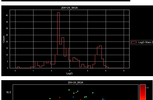
2000_PLAN

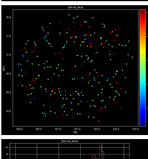
Programmer: I'ssaper I

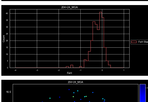
main_separator: 50
hurst: 0.5
subpoints: 0
cut_frac: 0.25
ref_points: 0
ref_clump: ref_clump: 130

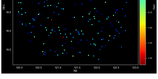
Nx: 8
Ny: 8
Nz: 8
Mpc: 25
Mag: 0
Ma: 0











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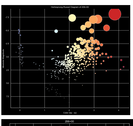
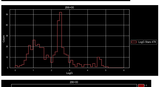
==================================================

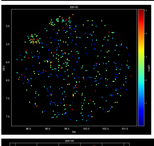
2D0-HM

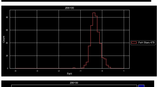
Prog-subname: I'ELVis2'I

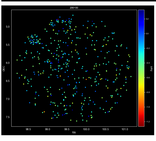
main_parameter: 2D
sub_parameter: 0
subparam: 0
CMD_gamma: HM
CMD_type: 0
red_points = red_clump: 354
Mv: 2
Mi: 22
Mg: 23
Mmag: 25
Mr: 24
Mp: 124
==================================================
==================================================
```









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2D0-HP

Prog-subname: I'apogee'I

main_parameter: 2D
sub_parameter: 0
subparam: 0
CMD_gamma: 2D0
CMD_type: 0
red_points = red_clump: 171
Mv: 2
Mi: 22
Mg: 23
Mmag: 25
Mr: 24
Mp: 124
==================================================
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```

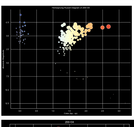

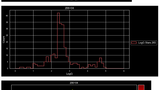

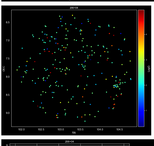

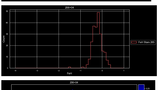

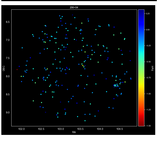


```
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2D0-LS

Prog-subname: I'apogee'I

main_parameter: 2D
sub_parameter: 0
subparam: 0
CMD_gamma: 2D
CMD_type: 0
red_points = red_clump: 132
Mv: 2
Mi: 22
Mg: 23
Mmag: 25
Mr: 24
Mp: 124
==================================================
==================================================
```

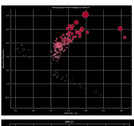

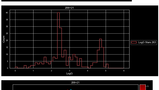

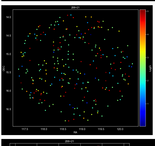

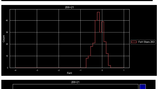

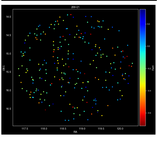


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2D0-LS_MLR

Prog-subname: I'apogee'I

main_parameter: 2D
sub_parameter: 0
subparam: 0
CMD_gamma: 2D0
CMD_type: MLR
red_points = red_clump: 78
Mv: 2
Mi: 22
Mg: 23
Mmag: 25
Mr: 24
Mp: 124
==================================================
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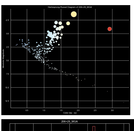
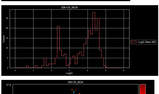
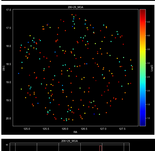
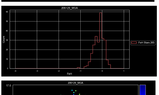
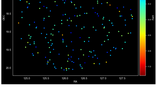
```











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2MASS_PSC

Programmes: ['Vanzyl']

main_sequence: 110
subgiants: 0
giants: 0
red_giants: 0
red_giants: 10
red_giants + red_clump: 84

Dec: 0
Ra: 0
Dec: 24
Ra: 24
Mag: 10
Mag: 16
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```

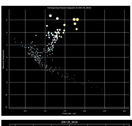

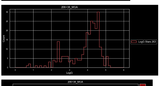

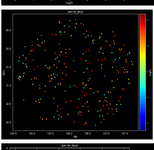

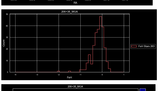

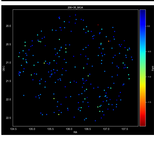


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2MASS

Programmes: ['Vanzyl']

main_sequence: 30
subgiants: 0
giants: 0
red_giants: 0
red_giants: 90
red_giants + red_clump: 120

Dec: 0
Ra: 0
Dec: 24
Ra: 24
Mag: 10
Mag: 16
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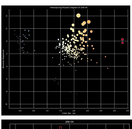
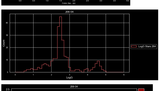
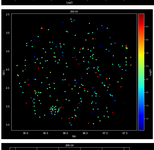
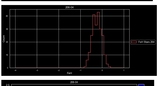
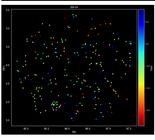
```









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2MASS_plus

Programmes: ['Calcio']

main_sequence: 70
subgiants: 0
giants: 0
red_giants: 170
red_giants: 0
red_giants + red_clump: 130

Dec: 0
Ra: 0
Dec: 24
Ra: 24
Mag: 10
Mag: 16
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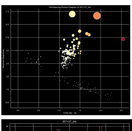

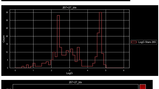

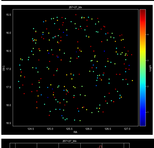

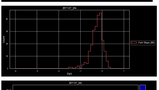

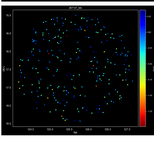


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2MASS_Ty_plus

Programmes: ['Tech_Ty']

main_sequence: 120
subgiants: 0
giants: 0
red_giants: 0
red_giants: 0
red_giants + red_clump: 91

Dec: 0
Ra: 0
Dec: 24
Ra: 24
Mag: 10
Mag: 16
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```
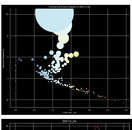
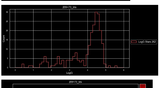
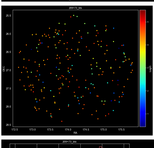
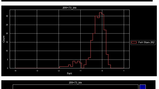
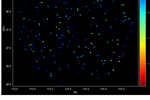



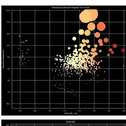


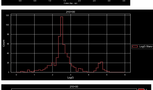


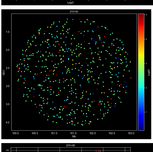


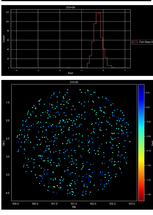


```
****************************************************************
2D-HD
Programfamily: ['apogee']

main_separator: 50
hsfactor: 0.8
hsmin: 0.0001
rad_power: 100
rad_gamma: 0.5
rad_gamma = rad_flag: 301

Nx: 2
Ny: 2
Nz: 2
Nbp: 100
Nr: 50
Nc: 10
****************************************************************
```

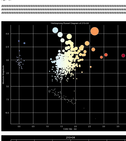


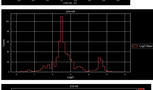


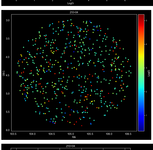


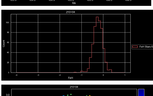


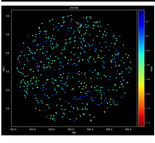

```
****************************************************************
2D-HD
Programfamily: ['apogee']

main_separator: 70
hsfactor: 0.8
hsmin: 0.0001
rad_power: 100
rad_gamma: 0.5
rad_gamma = rad_flag: 370

Nx: 2
Ny: 2
Nz: 2
Nbp: 100
Nr: 50
Nc: 10
****************************************************************
```



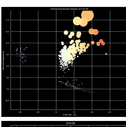


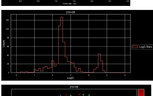


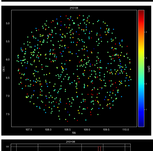


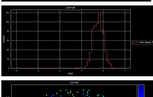


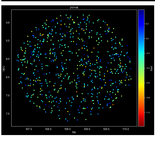
```
****************************************************************
2D-HD
Programfamily: ['marvin']

main_separator: 90
hsfactor: 0.8
hsmin: 0.0001
rad_power: 100
rad_gamma: 0.5
rad_gamma = rad_flag: 401

Nx: 2
Ny: 2
Nz: 2
Nbp: 100
Nr: 50
Nc: 10
****************************************************************
```



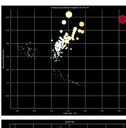


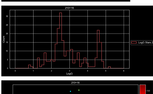


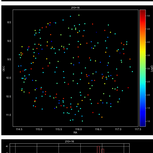


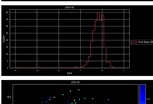


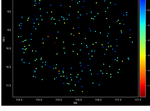
```
****************************************************************
2D-HD
Programfamily: ['apogee']

main_separator: 50
hsfactor: 0.8
hsmin: 0.0001
rad_power: 100
rad_gamma: 0.5
rad_gamma = rad_flag: 530

Nx: 2
Ny: 2
Nz: 2
Nbp: 100
Nr: 50
Nc: 10
****************************************************************
```











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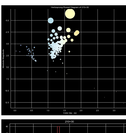
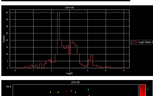
2:24:30

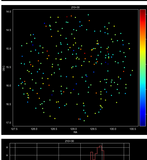
Programname: ['apogee']

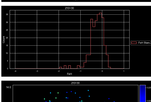
mem_usagemax: 75
cpu_usagemax: 0
subpixels: 16
nsubexp: 1
nsubexp_ldm: 1
red_clump: 10
red_points = red_clump: 108

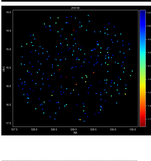
Dec: 0
Ver: 0
Ahex: 0
Mver: 0.5
Mhex: 0
Mw: 0
==========================================================
==========================================================
```











```
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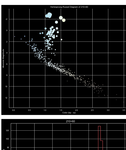
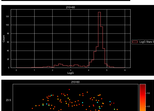
2:24:40

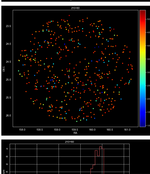
Programname: ['apogee', 'hera']

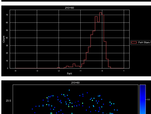
mem_usagemax: 100
cpu_usagemax: 0
subpixels: 9
nsubexp: 1
nsubexp_ldm: 10
red_clump = red_clump: 127

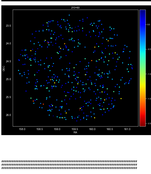
Dec: 0
Ver: 0
Ahex: 0
Mver: 100
Mhex: 0
Mw: 0
==========================================================
==========================================================
```











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2:24:51

Programname: ['apogee']

mem_usagemax: 126
cpu_usagemax: 0.5
subpixels: 16
nsubexp: 100
nsubexp_ldm: 100
red_points = red_clump: 91

Dec: 0
Ver: 0
Ahex: 20
Mver: 0
Mhex: 0
Mw: 0
==========================================================
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```

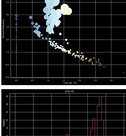

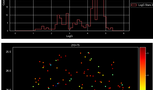

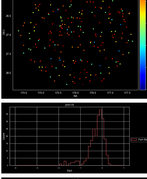

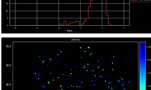

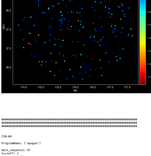

```
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2:24:40

Programname: ['apogee']

mem_usagemax: 57
cpu_usagemax: 0
subpixels: 9
nsubexp: 100
nsubexp_ldm: 100
red_points = red_clump: 152

Dec: 20
Ver: 20
Ahex: 0
Mver: 100
Mhex: 0
Mw: 0.5
==========================================================
==========================================================
```

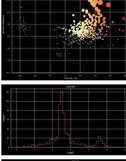

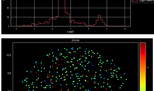

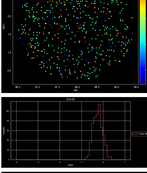

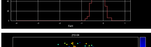

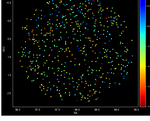

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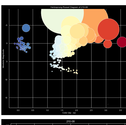
ZCB-08

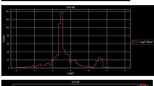
Programmer: ['sanger']

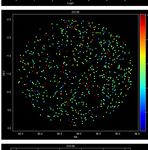
main_separator: 27
sunset: 0
subpanels: 2
red_points: 628
red_lines: 0
red_points + red_lines: 391

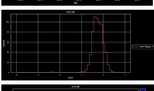
Ma: 0
Ma: 12
Ma: 24
Ma: 36
Ma: 48
Ma: 60

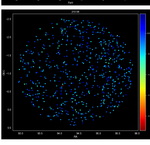
==========











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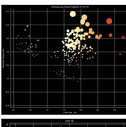
ZCB-10

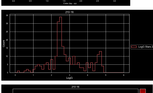
Programmer: ['sanger']

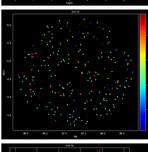
main_separator: 48
sunset: 0
subpanels: 2
red_points: 286
red_lines: 0
red_points + red_lines: 143

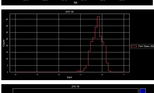
Ma: 0
Ma: 12
Ma: 24
Ma: 36
Ma: 48
Ma: 60

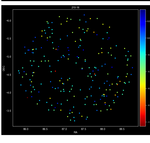
==========











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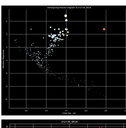
ZCCM_MA

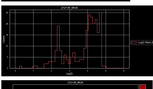
Programmer: ['sanger']

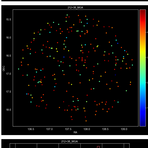
main_separator: 60
sunset: 0
subpanels: 12
red_points: 148
red_lines: 0
red_points + red_lines: 74

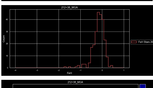
Ma: 0
Ma: 12
Ma: 24
Ma: 36
Ma: 48
Ma: 60

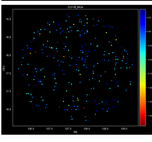
==========











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ZCCMB

Programmer: ['Alice']

main_separator: 0
sunset: 0
subpanels: 12
red_points: 300
red_lines: 0
red_points + red_lines: 300

Ma: 0
Ma: 12
Ma: 24
Ma: 36
Ma: 48
Ma: 60

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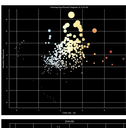
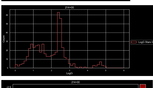
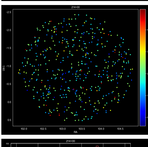
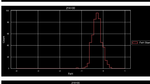
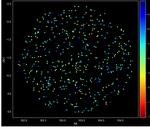


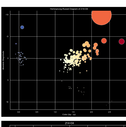


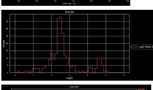


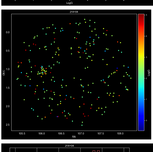


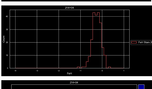


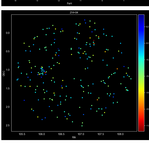
```
ZZ4WD
Programmer: ['Wenjun']

main_separator: 32
header: 0
subheader: 0
red_quality: 255
red_frames: 60
red_quality - red_frames: 195

Mx: 0
Mn: 0
Max: 99
Min: 99
My: 0
Mp: 0
```



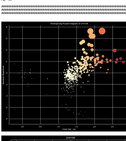


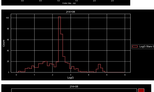


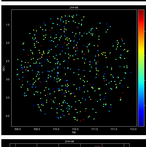


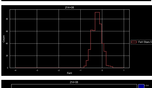


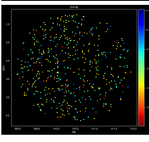
```
ZZ4WD
Programmer: ['Alvin']

main_separator: 32
header: 0
subheader: 0
red_quality: 255
red_frames: 180
red_quality - red_frames: 330

Mx: 0
Mn: 0
Max: 99
Min: 99
My: 99
Mp: 99
```



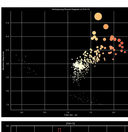


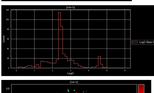


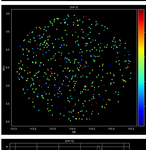


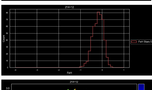


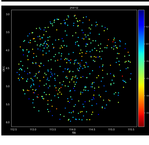
```
ZZ4WD
Programmer: ['Alvin']

main_separator: 32
header: 0
subheader: 0
red_quality: 255
red_frames: 60
red_quality - red_frames: 207

Mx: 0
Mn: 0
Max: 99
Min: 99
My: 0
Mp: 0
```



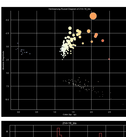


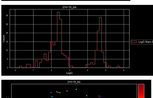


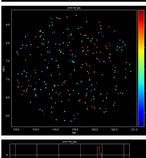


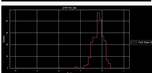


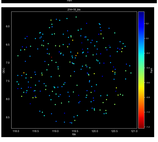
```
ZZ4WD_Pro
Programmer: ['Alvin']

main_separator: 32
header: 0
subheader: 0
red_quality: 255
red_frames: 60
red_quality - red_frames: 133

Mx: 99
Mn: 0
Max: 0
Min: 99
My: 99
Mp: 99
```











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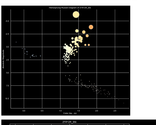
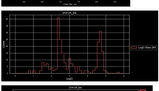
Z0-Fe_Ga-

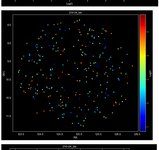
Programmes: [‘atlas’]

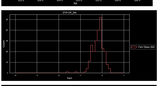
main_separator: 30
header: 1
subheader: 2
num_points: 127
real_points: 127
real_points = num_clump: 126

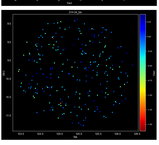
Nx: 8
Ny: 8
Nz: 2
Mag: 20
Mx: 0
My: 0











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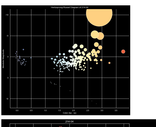
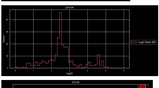
Z10-Mn

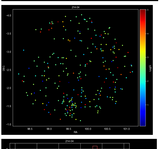
Programmes: [‘apogee’]

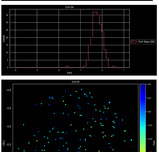
main_separator: 26
header: 1
subheader: 2
num_points: 417
real_points: 417
real_points = num_clump: 396

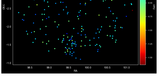
Nx: 16
Ny: 16
Nz: 2
Mag: 8.4
Mx: 0
My: 0

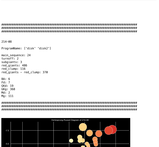












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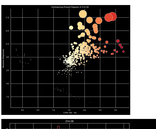
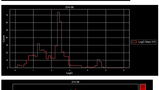
Z10-Ni

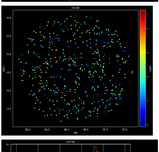
Programmes: [‘atlas’, ‘alvin’]

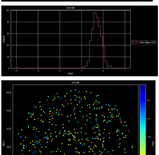
main_separator: 26
header: 1
subheader: 2
num_points: 170
real_points: 168
real_points = num_clump: 170

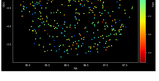
Nx: 8
Ny: 8
Nz: 2
Mag: 20
Mx: 0
My: 0











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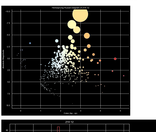
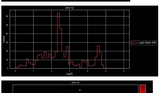
Z14-Cr

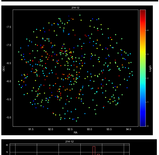
Programmes: [‘atlas’]

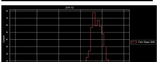
main_separator: 57
header: 1
subheader: 2
num_points: 403
real_points: 403
real_points = num_clump: 389

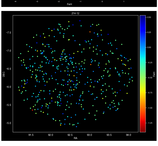
Nx: 16
Ny: 16
Nz: 2
Mag: 8.4
Mx: 0
My: 0









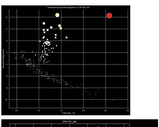


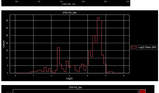
2DHOD_pro

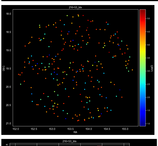
Propertyname: ['halo_bv']

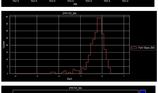
mass_separator: 148
bin_number: 20
subgroupno: 0
halo_number: 0
red_number: 0
red_fraction = red_fraction: 60

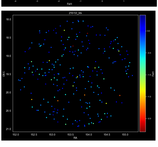
Dec: 0
Ra: 0
Mass: 12.2
Vel: 0.0
Mag: 0
Mag: 0









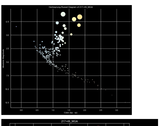


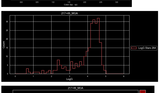
2DHOD_MGA

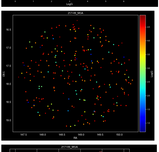
Propertyname: ['mangr']

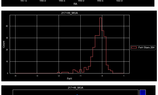
mass_separator: 137
bin_number: 20
subgroupno: 0
halo_number: 0
red_number: 0
red_fraction = red_fraction: 61

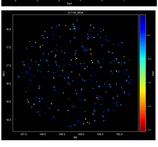
Dec: 0
Ra: 0
Mass: 12.2
Vel: 0.0
Mag: 0
Mag: 0









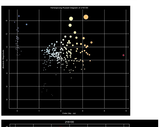


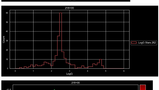
2DHOD

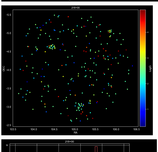
Propertyname: ['mangr']

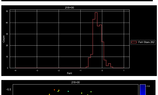
mass_separator: 30
bin_number: 4
subgroupno: 0
halo_number: 0
red_number: 0
red_fraction = red_fraction: 138

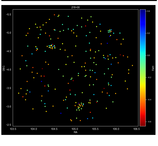
Dec: 0
Ra: 0
Mass: 12.2
Vel: 0.0
Mag: 0
Mag: 0









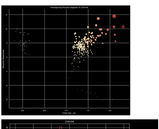


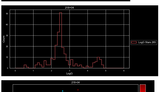
2DHOD

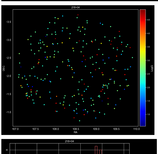
Propertyname: ['mangr']

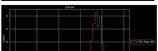
mass_separator: 33
bin_number: 5
subgroupno: 0
halo_number: 0
red_number: 0
red_fraction = red_fraction: 154

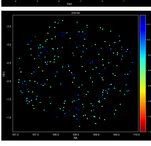
Dec: 0
Ra: 0
Mass: 12.2
Vel: 0.0
Mag: 0
Mag: 0









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2D-RA

Programmes: ['unique']

main_sequence: 25
turnoff: 19
subgiants: 4
red_giants: 238
red_clump: 4
red_giants - red_clump: 233

Dec: 0
Ra: 0
dDec: 0.2
dRa: 0.2
Mag: 0
Mag: 0
==========================================
==========================================
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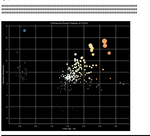
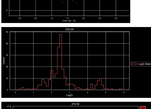
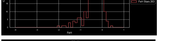
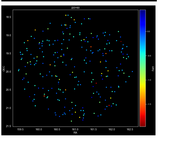




2D-RA
Mag
Mag
Mag
Mag





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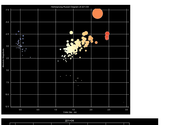
ZZ0-00

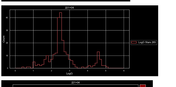
Prog=pdbmen: ['sanpar']

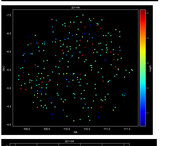
main_sequence: 31
subsequence: 0
subpartic: 0
ind_partic: 0
ind_times: 0
ind_partic: 0 ind_times: 150

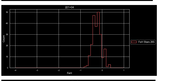
Dec: 20
Ch: 0
Year: 2
Mon: 10
Day: 4
Ho: 10

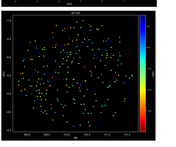
==========











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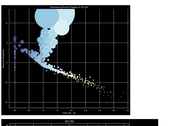
ZZ0-00

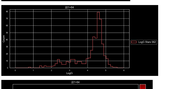
Prog=pdbmen: ['sanpar']

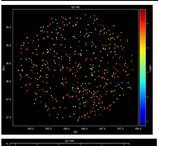
main_sequence: 325
subsequence: 0
subpartic: 30
ind_partic: 30
ind_times: 0
ind_partic: 30 ind_times: 100

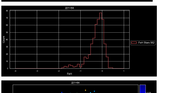
Dec: 20
Ch: 0
Year: 2
Mon: 10
Day: 4
Ho: 10

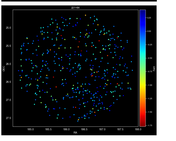
==========











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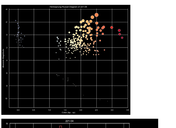
ZZ0-00

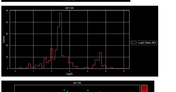
Prog=pdbmen: ['sanpar']

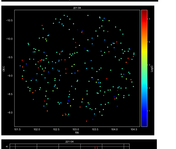
main_sequence: 38
subsequence: 0
subpartic: 213
ind_partic: 0
ind_times: 146

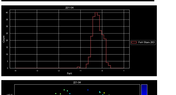
Dec: 20
Ch: 0
Year: 2
Mon: 10
Day: 4
Ho: 0

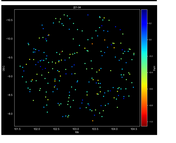
==========











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ZZ0/R_PLA

Prog=pdbmen: ['sanpar']

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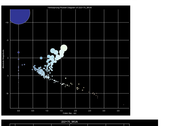
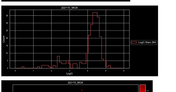
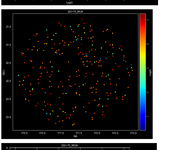
subsequence: 0
subpartic: 0
ind_partic: 0
ind_times: 0
ind_partic: 0 ind_times: 48

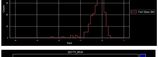
Dec: 0
Ch: 0
Year: 10
Mon: 10
Day: 27
Ho: 0

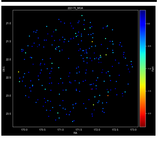
==========











2D3TS_MUA

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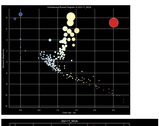
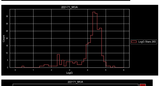
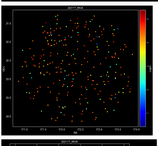
Propertyvalues: ['mvsqr']

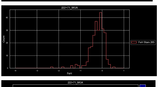
main_separator: 100
hydrofrl: 30
hydrosmooth: 30
rad_galaxy: 15
rad_halo: 30
rad_gravity = rad_clump: 45

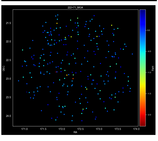
Ox: 0
Oy: 0
Oz: 0
Wx: 15
Wy: 15
Wz: 7
```











2D3UN_MUA

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Propertyvalues: ['mvsqr']

main_separator: 50
hydrofrl: 30
hydrosmooth: 30
rad_galaxy: 15
rad_halo: 30
rad_gravity = rad_clump: 50

Ox: 0
Oy: 0
Oz: 0
Wx: 15
Wy: 15
Wz: 7
```
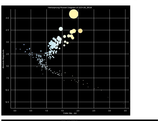
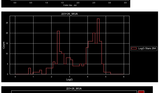
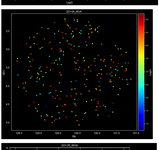
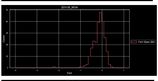
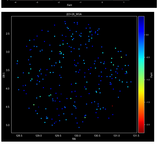





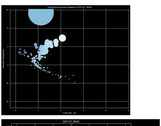


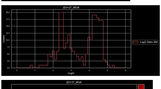


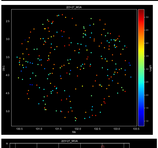


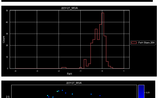
2D3US_MUA

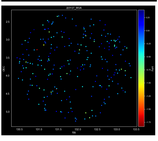
```
Propertyvalues: ['mvsqr']

main_separator: 50
hydrofrl: 30
hydrosmooth: 30
rad_galaxy: 15
rad_halo: 30
rad_gravity = rad_clump: 50

Ox: 0
Oy: 0
Oz: 0
Wx: 15
Wy: 15
Wz: 7
```





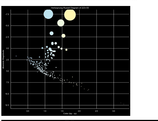


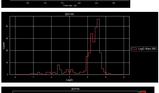


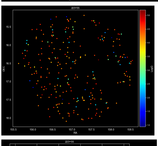


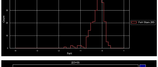
2D4US

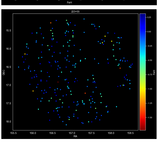
```
Propertyvalues: ['mvsqr']

main_separator: 100
hydrofrl: 30
hydrosmooth: 30
rad_galaxy: 15
rad_halo: 30
rad_gravity = rad_clump: 45

Ox: 0
Oy: 0
Oz: 0
Wx: 15
Wy: 15
Wz: 7
```



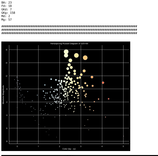


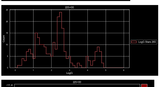


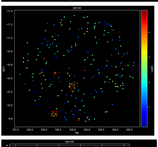


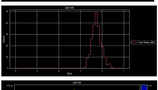


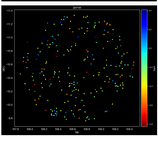

```
z=0.00

Programme: ['slurs']

main_separator: 20
nsnapfrl: 51
nsnapshots: 1
nsnapstart: 50
red_frac: 0.5
red_points = red_frac*100: 187

Box: 20
Res: 0
Omm: 0
Omb: 0.04
Ho: 70
Ns: 0.9
```



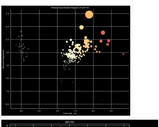


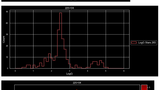


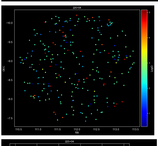


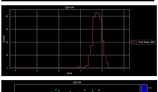


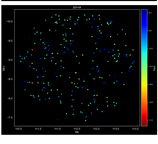

```
z=0.00

Programme: ['sprayer']

main_separator: 20
nsnapfrl: 51
nsnapshots: 1
nsnapstart: 50
red_frac: 0.5
red_points = red_frac*100: 151

Box: 20
Res: 0
Omm: 0
Omb: 0.04
Ho: 70
Ns: 0.9
```



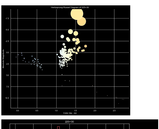


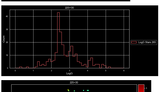


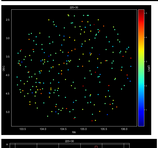


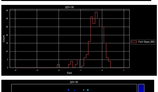


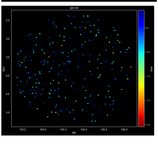

```
z=0.00

Programme: ['sprayer']

main_separator: 20
nsnapfrl: 51
nsnapshots: 1
nsnapstart: 50
red_frac: 0.5
red_points = red_frac*100: 303

Box: 20
Res: 0
Omm: 0
Omb: 0.04
Ho: 70
Ns: 0.9
```



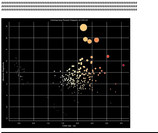


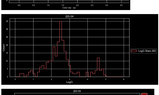


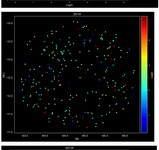


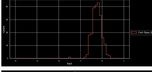


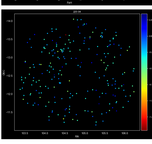

```
z=0.00

Programme: ['sprayer']

main_separator: 20
nsnapfrl: 51
nsnapshots: 1
nsnapstart: 50
red_frac: 0.5
red_points = red_frac*100: 594

Box: 20
Res: 0
Omm: 0
Omb: 0.04
Ho: 70
Ns: 0.9
```











##

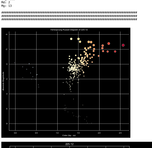
CO-10

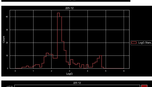
Programmes: ['vlvcvr']

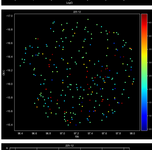
main_sequence: 20
turnoff: 0
subgiants: 0
red_giants: 87
red_clump: 0
red_giants - red_clump: 148

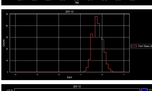
Ms: 0
Mbs: 0
Mgs: 0
Mrs: 0
Mw: 0

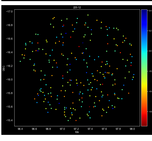
##











##

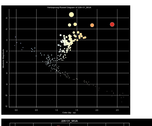
CO+O_MLR

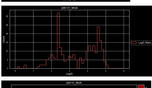
Programmes: ['hanqw']

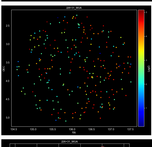
main_sequence: 0
turnoff: 0
subgiants: 0
red_giants: 87
red_clump: 0
red_giants - red_clump: 87

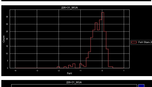
Ms: 0
Mbs: 0
Mgs: 0
Mrs: 0
Mw: 0

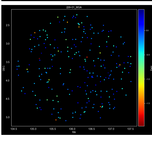
##











##

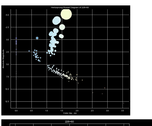
CO+OH

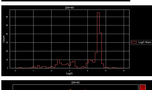
Programmes: ['apogee']

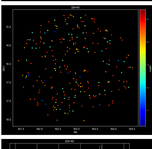
main_sequence: 148
turnoff: 0
subgiants: 0
red_giants: 87
red_clump: 0
red_giants - red_clump: 62

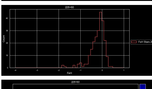
Ms: 0
Mbs: 0
Mgs: 0
Mrs: 0
Mw: 0

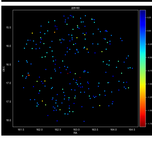
##











##

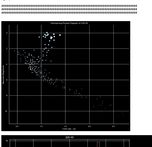
CO-NH

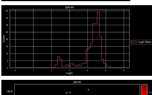
Programmes: ['hlcvr']

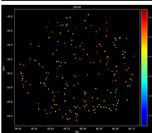
main_sequence: 148
turnoff: 20
subgiants: 0
red_giants: 87
red_clump: 0
red_giants - red_clump: 62

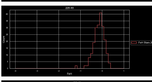
Ms: 0
Mbs: 0
Mgs: 0
Mrs: 0
Mw: 0

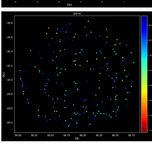
##









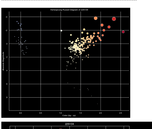


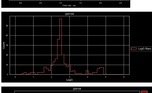
Z20-00

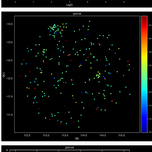
Progenitor: 1'apogee'1

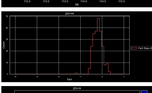
main_separator: 25
halo_id: 0
subhalo_id: 0
red_quality: 114
red_flags: 00
red_info: 00 red_flags: 113

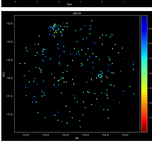
Nx: 20
Ny: 20
Nz: 20
Box: 0.3
Mpc: 1
Mp: 1









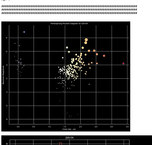


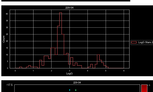
Z20-00

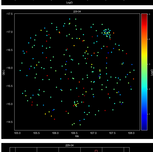
Progenitor: 1'apogee'1

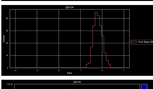
main_separator: 28
halo_id: 0
subhalo_id: 1
red_quality: 114
red_flags: 00
red_info: 00 red_flags: 107

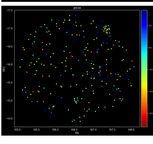
Nx: 20
Ny: 20
Nz: 20
Box: 0.3
Mpc: 1
Mp: 1









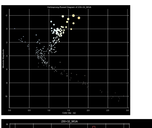


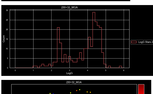
Z30-02_MLA

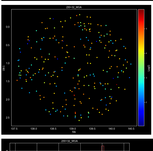
Progenitor: 1'merge'1

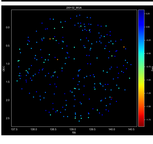
main_separator: 119
halo_id: 46
subhalo_id: 0
red_quality: 78
red_flags: 00
red_info: 00 red_flags: 78

Nx: 1
Ny: 1
Nz: 1
Box: 30
Mpc: 29
Mp: 1







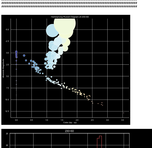


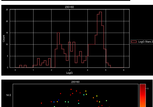
Z30-00

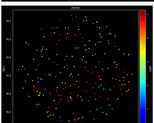
Progenitor: 1'apogee'1

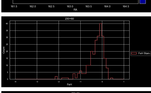
main_separator: 90
halo_id: 0
subhalo_id: 11
red_quality: 114
red_flags: 00
red_info: 00 red_flags: 100

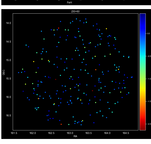
Nx: 1
Ny: 1
Nz: 1
Box: 30
Mpc: 29
Mp: 1



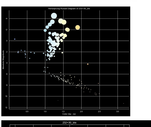


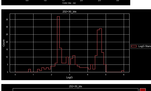


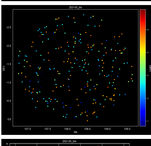


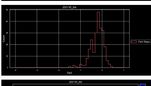


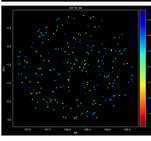

```
ZOOM_pca
Programmer: ['alice']
main_separator: 32
hydro?: 1
subplots: 2
sub_points: 20
sub_points: 20
tot_points = sub_time: 113
Ms: 1
Mh: 10
Mbh: 10
Mhh: 10
Mw: 5
```



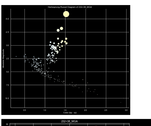


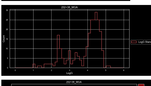


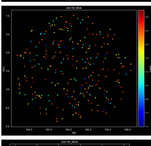


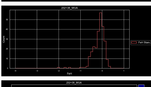


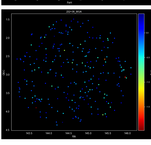

```
ZOOM_MUA
Programmer: ['marge']
main_separator: 127
hydro?: 1
subplots: 2
sub_points: 40
sub_points: 40
tot_points = sub_time: 90
Ms: 1
Mh: 10
Mbh: 10
Mhh: 10
Mw: 5
```



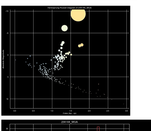


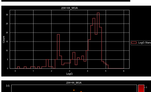


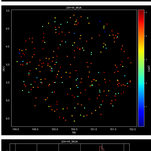


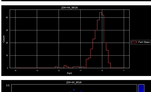


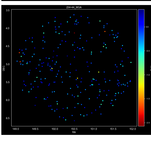

```
ZOOM_MUA
Programmer: ['marge']
main_separator: 131
hydro?: 1
subplots: 2
sub_points: 40
sub_points: 20
tot_points = sub_time: 88
Ms: 1
Mh: 10
Mbh: 10
Mhh: 10
Mw: 5
```



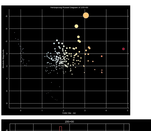


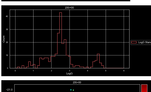


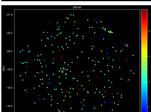


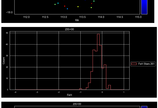


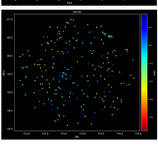

```
ZOOM
Programmer: ['casper']
main_separator: 25
hydro?: 1
subplots: 2
sub_points: 240
sub_points: 20
tot_points = sub_time: 500
Ms: 10
Mh: 10
Mbh: 10
Mhh: 10
Mw: 5
```











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2D=40

Programme: I'apogee I

main_separator: 0
turnoff: 0
subgenre: 1
subgenre: 1
red_points: 0
red_points + red_flump: 144

Nb: 2
Ma: 0
Ma: 0
Ma: 0
Ma: 0
Ma: 0
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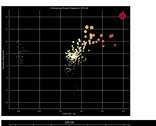
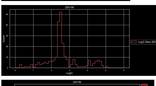
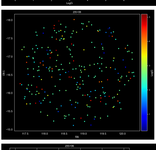
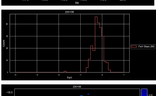
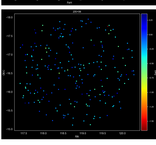
```











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2D=41

Programme: I'apogee I

main_separator: 0
turnoff: 0
subgenre: 1
subgenre: 1
red_points: 0
red_points + red_flump: 140

Nb: 0
Ma: 0
Ma: 0
Ma: 283
Ma: 0
Ma: 0
==========================================
==========================================
```

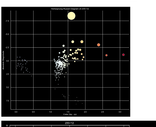

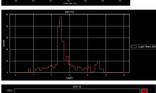

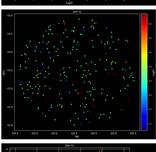

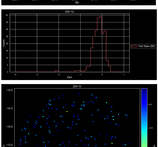

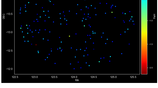

```
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2D=38

Programme: I'apogee I

main_separator: 0
turnoff: 0
subgenre: 1
subgenre: 1
red_points: 0
red_points + red_flump: 303

Nb: 0
Ma: 0
Ma: 0
Ma: 0
Ma: 0
==========================================
==========================================
```

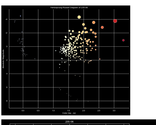

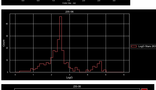

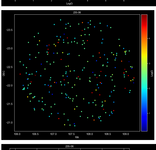

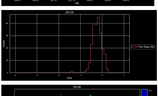

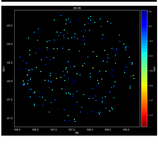

```
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2D=32

Programme: I'apogee I

main_separator: 30
turnoff: 0
subgenre: 1
subgenre: 1
red_points: 0
red_points + red_flump: 302

Nb: 0
Ma: 0
Ma: 0
Ma: 0
Ma: 0
==========================================
==========================================
```

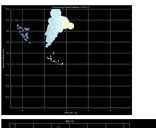

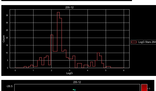

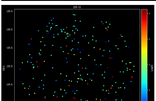

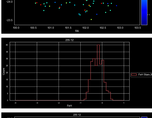

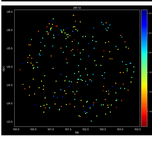

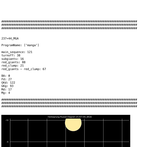

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2014LM_MLA

Programmer: I'mango!

mem_separator: 125
hsize: 0
subpixels: 0
num_pixels: 36
hsize: 0
num_pixels - num_clump: 47

Dec: 0
Ra: 0
Mag: 12.7
Mag: 12
Mu: 0
Mu: 0
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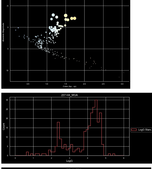
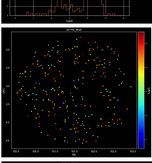
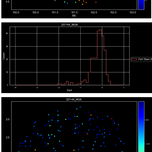
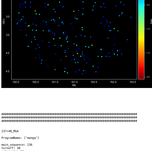
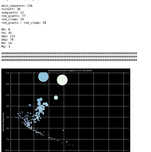
==============================================
```











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2014LM_MLA

Programmer: I'mango!

mem_separator: 126
hsize: 0
subpixels: 0
num_pixels: 50
hsize: 0
num_pixels - num_clump: 58

Dec: 0
Ra: 0
Mag: 12.7
Mag: 12
Mu: 0
Mu: 0
==============================================
==============================================
```


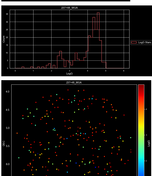

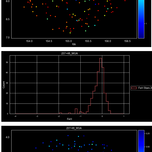

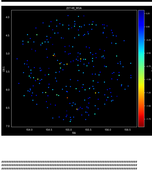

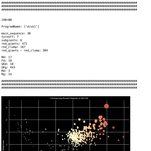

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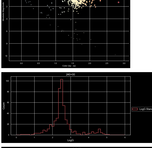
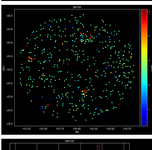
2014LM

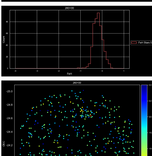
Programmer: I'mint!

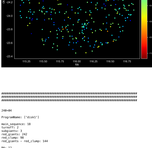
mem_separator: 38
hsize: 0
subpixels: 0
num_pixels: 67
num_pixels - num_clump: 304

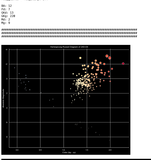
Dec: 12
Ra: 12
Mag: 14.3
Mag: 14
Mu: 14
==============================================
==============================================
```











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2014LM

Programmer: I'mint!

mem_separator: 39
hsize: 0
subpixels: 0
num_pixels: 64
num_pixels - num_clump: 144

Dec: 12
Ra: 12
Mag: 14
Mag: 14
Mu: 14
Mu: 14
==============================================
==============================================
```
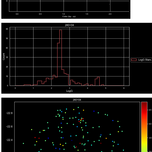
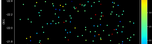
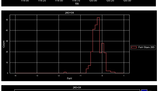
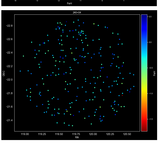







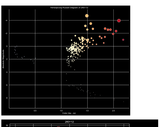


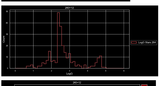
2DR=12

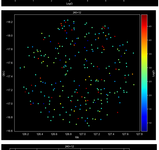
Prog=galaxies ['z1ccc1']

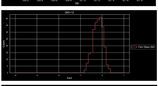
main_sequence= 38
nsubgrid= 5
subgrid= 1
cut_galaxies= 24
red_frac= 0.0
red_galaxies= 145

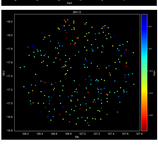
Nx= 5
Ny= 5
Nz= 1
Max= 0.5
Min= -0.5
Nq= 10









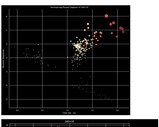


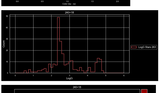
2DR=18

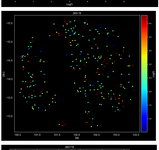
Prog=galaxies ['z1ccccc']

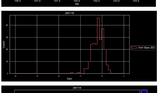
main_sequence= 38
nsubgrid= 5
subgrid= 1
cut_galaxies= 24
red_frac= 0.0
red_galaxies= 145

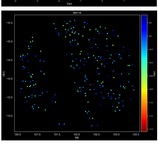
Nx= 5
Ny= 5
Nz= 1
Max= 0.5
Min= -0.5
Nq= 10









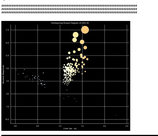


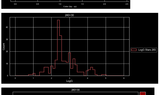
2DR=30

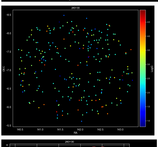
Prog=galaxies ['z1ccccc']

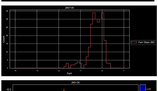
main_sequence= 25
nsubgrid= 5
subgrid= 1
cut_galaxies= 175
red_frac= 0.0
red_galaxies= 993

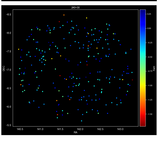
Nx= 5
Ny= 5
Nz= 1
Max= 0.5
Min= -0.5
Nq= 10









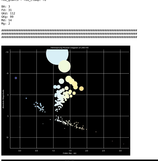


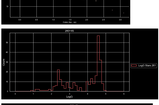
2DR=45

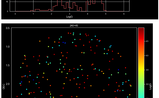
Prog=galaxies ['z1ccccc']

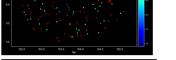
main_sequence= 25
nsubgrid= 5
subgrid= 1
cut_galaxies= 24
red_frac= 0.0
red_galaxies= 74

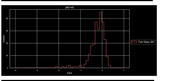
Nx= 5
Ny= 5
Nz= 1
Max= 0.5
Min= -0.5
Nq= 10

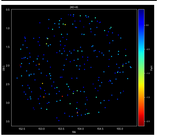












****

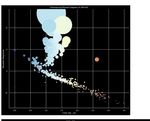
2HR-0B

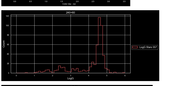
Programfamen: ['sanpyr', 'hurz']

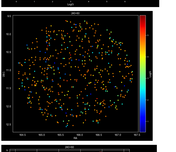
main_separator: 87
hungerfl: 28
hungerfl_ratio: 0
red_points: 321
red_ratio: 0.32
red_points + red_clump: 127

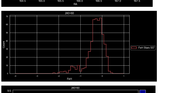
Ne: 0
Nh: 0
Nhp: 214
Nhr: 214
Nr: 0
Nu: 0

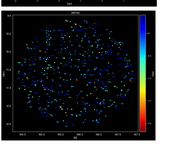
****











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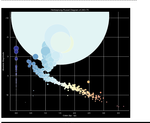
2HR-7E

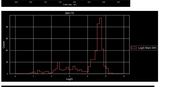
Programfamen: ['sanpyr', 'hurz']

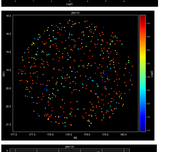
main_separator: 325
hungerfl: 0
hungerfl_ratio: 0
red_points: 314
red_ratio: 0.31
red_points + red_clump: 392

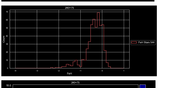
Ne: 0
Nh: 0
Nhp: 285
Nhr: 285
Nr: 107
Nu: 0

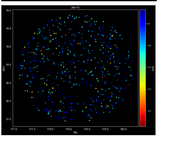
****











****

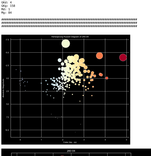
2HR-8H

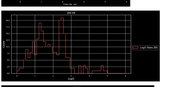
Programfamen: ['shield']

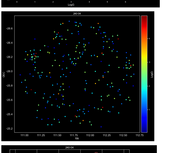
main_separator: 0
hungerfl: 0
hungerfl_ratio: 0
red_points: 0
red_ratio: 0.0
red_points + red_clump: 217

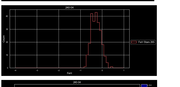
Ne: 22
Nh: 0
Nhp: 0
Nhr: 214
Nr: 0
Nu: 0

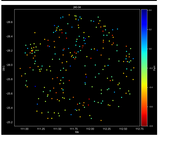
****











****

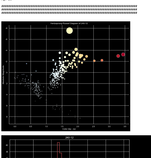
2HR-5C

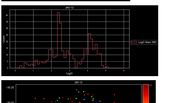
Programfamen: ['shield', 'hurz']

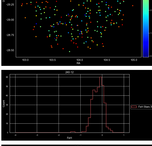
main_separator: 90
hungerfl: 0
hungerfl_ratio: 0
red_points: 268
red_ratio: 0.27
red_points + red_clump: 392

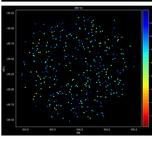
Ne: 32
Nh: 0
Nhp: 0
Nhr: 360
Nr: 0
Nu: 0

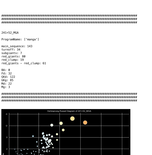
****











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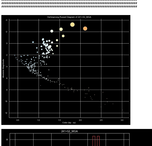
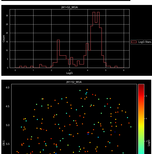
IAS/GS_MLA

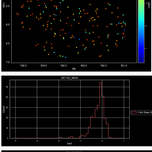
Programmes: ['mango']

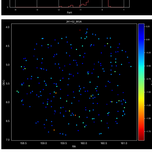
main_separator: 40
turbo?: [1]
subgroup?: 0
rot_angle: 0.0
rot_frame: 'GS'
rot_points = rot_time: 43

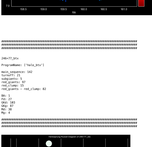
Nx: 8
Ny: 8
Xbn: 0.2
Ybn: 0.2
Mag: 20
Nx: 8
Ny: 8
```











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ABM/TC_MLA

Programmes: ['mala_bis']

main_separator: 40
turbo?: [1]
subgroup?: 0
rot_angle: 0.0
rot_frame: 'GS'
rot_points = rot_time: 42

Nx: 8
Ny: 8
Xbn: 0.2
Ybn: 0.2
Mag: 20
Nx: 8
Ny: 8
```

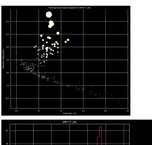

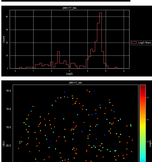

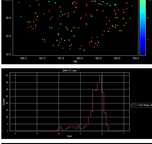

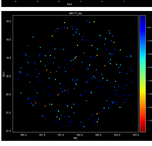

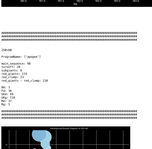

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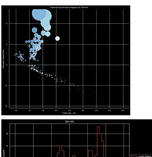
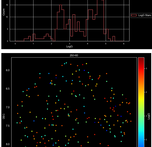
ZEUS0

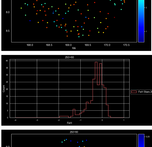
Programmes: ['apiqqer']

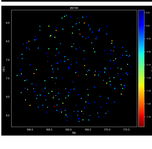
main_separator: 30
turbo?: [1]
subgroup?: 0
rot_angle: 0.0
rot_frame: 'GS'
rot_points = rot_time: 130

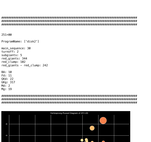
Nx: 5
Ny: 5
Xbn: 0.4
Ybn: 0.4
Mag: 20
Nx: 5
Ny: 5
```











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****************************************************************
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ZEUS0

Programmes: ['ZEUS2']

main_separator: 30
turbo?: [1]
subgroup?: 0
rot_angle: 0.0
rot_frame: 'GS'
rot_points = rot_time: 242

Nx: 20
Ny: 20
Xbn: 0.1
Ybn: 0.1
Mag: 20
Nx: 20
Ny: 20
```
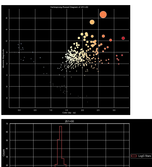
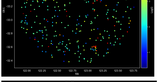
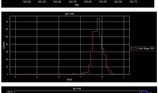
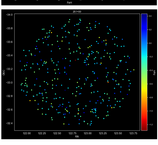









****

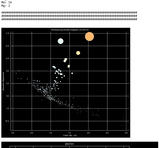
2D/h5

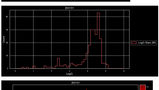
Programmer: ['apogee']

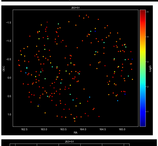
main_subparser: 1D2
hydroOff: 0
subgrids: 16
num_guards: 16
num_cells: 32
num_parts = num_ray: 48

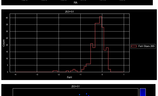
Nx: 2
Ny: 2
Nz: 2
Max: 32
Min: 0
Mg: 32

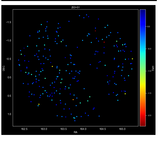
****











****

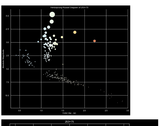
2D/h5

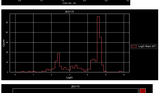
Programmer: ['apogee']

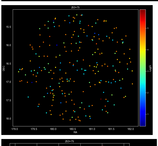
main_subparser: 1D2
hydroOff: 0
subgrids: 16
num_guards: 16
num_cells: 32
num_parts = num_ray: 64

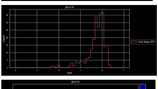
Nx: 2
Ny: 2
Nz: 2
Max: 32
Min: 0
Mg: 32

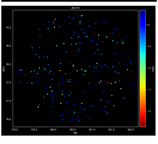
****











****

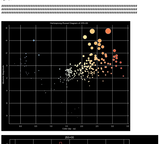
2D/d0

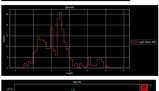
Programmer: ['dirac']

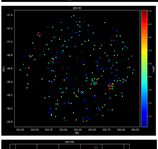
main_subparser: 3D
hydroOff: 0
subgrids: 1
num_guards: 16
num_cells: 48
num_parts = num_ray: 195

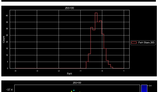
Nx: 3
Ny: 3
Nz: 3
Max: 288
Min: 0
Mg: 16

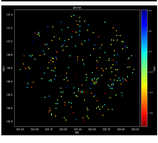
****











****

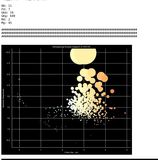
2D/d0

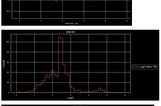
Programmer: ['dirac']

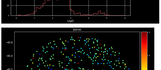
main_subparser: 3D
hydroOff: 0
subgrids: 1
num_guards: 16
num_cells: 48
num_parts = num_ray: 534

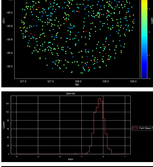
Nx: 3
Ny: 3
Nz: 3
Max: 288
Min: 0
Mg: 16

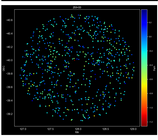
****



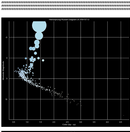


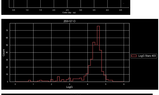


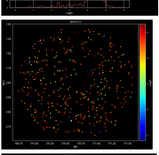


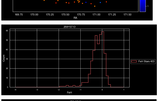


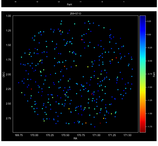
```
2024-12-8
Programmer: ['Yenna_Ilie' 'wrinkerg1_Ilie']
main_parameter: 275
seed: 1
subparameter: 42
subsubparameter: 0
rnd_number: 0
rnd_number_2: 140_Ilie:-40
Nx: 8
Ny: 10
Nz: 10
Nbin: 10
Nbin_2: 10
Ng: 1
```



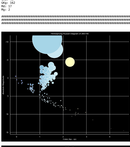


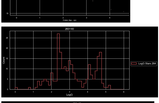


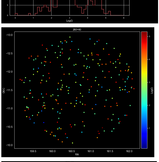


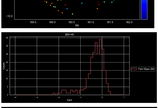


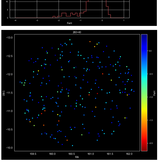
```
2024-12-8
Programmer: ['wrinkerg1']
main_parameter: 65
seed: 1
subparameter: 0
subsubparameter: 0
rnd_number: 0
rnd_number_2: 140_Ilie:-130
Nx: 8
Ny: 10
Nz: 10
Nbin: 10
Nbin_2: 10
Ng: 1
```



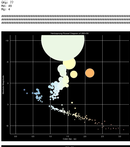


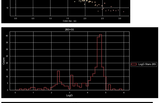


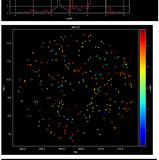


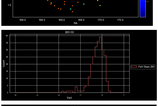


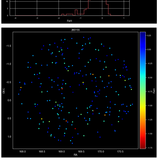
```
2024-12
Programmer: ['wrinkerg1']
main_parameter: 158
seed: 1
subparameter: 0
subsubparameter: 0
rnd_number: 0
rnd_number_2: 140_Ilie:-74
Nx: 8
Ny: 10
Nz: 10
Nbin: 10
Nbin_2: 10
Ng: 1
```



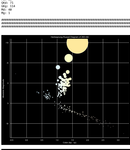


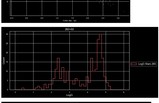


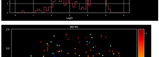


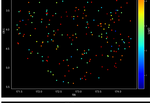


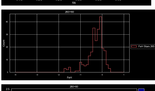
```
2024-12
Programmer: ['wrinkerg1']
main_parameter: 158
seed: 1
subparameter: 1
subsubparameter: 0
rnd_number: 0
rnd_number_2: 140_Ilie:-341
Nx: 8
Ny: 10
Nz: 10
Nbin: 10
Nbin_2: 10
Ng: 1
```

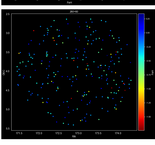












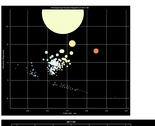
==========

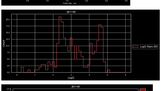
2D:HD

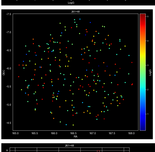
Programmer: [‘apogee’]

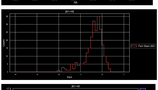
```
main_separator: 50
hunger: 10
seed_mass: 0.1
red_gravity: 0.5
red_mass: 0.01
red_points = red_clump: 130

Dir: 2
Dim: 2
Seed: 50
Max: 10
Min: 0
```

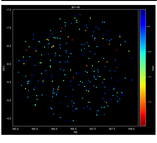
==========











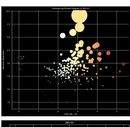
==========

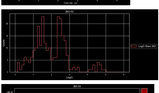
2D:RF

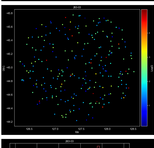
Programmer: [‘victor’]

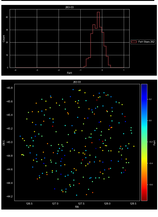
```
main_separator: 10
hunger: 0.1
seed_mass: 0
red_gravity: 0.5
red_clump: 30
red_points = red_clump: 200

Dir: 2
Dim: 2
Seed: 0
Max: 0.1
Min: 0
```

==========









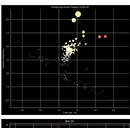
==========

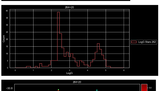
2D:CB

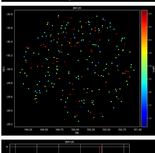
Programmer: [‘victor’]

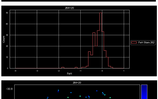
```
main_separator: 0
hunger: 0
seed_mass: 0
red_gravity: 100
red_mass: 0
red_points = red_clump: 125

Dir: 2
Dim: 2
Seed: 0
Max: 10
Min: 0
```

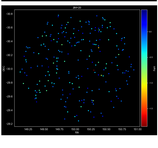
==========











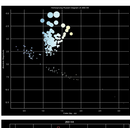
==========

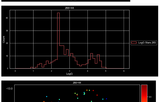
2D:HF

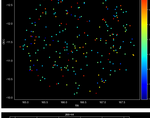
Programmer: [‘apogee’]

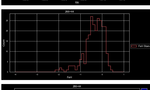
```
main_separator: 50
hunger: 0.1
seed_mass: 0.1
red_gravity: 100
red_mass: 0.01
red_points = red_clump: 152

Dir: 2
Dim: 2
Seed: 50
Max: 10
Min: 0
```

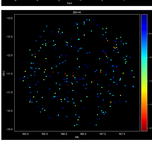
==========







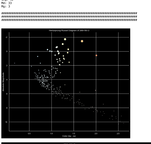


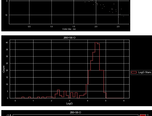


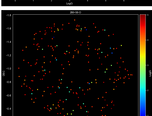
2024-06-0

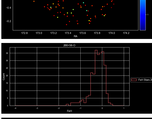
Programmes: [‘rosen_lbv’]

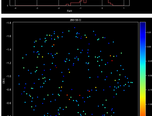
```
main_separator: 128
sample: 0.5
subparts: 5
rot_angle: 0.0
rot_axis: [0, 0, 1]
rot_points = rot_clump: 50

Dec: 0
Jan: 0
Feb: 0.0
Mar: 0.0
Apr: 0
May: 0
```







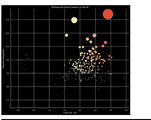


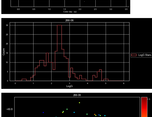


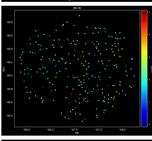
2024-06-

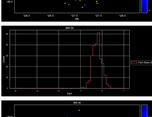
Programmes: [‘slice’]

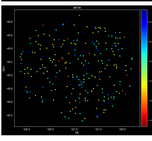
```
main_separator: 64
sample: 0.5
subparts: 0
rot_angle: 0.0
rot_axis: [0, 0, 1]
rot_points = rot_clump: 153

Dec: 0
Jan: 0
Feb: 0
Mar: 0.0
Apr: 0.0
May: 0
```







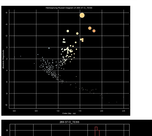


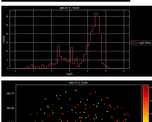


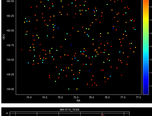
2024-07-0_TOS1

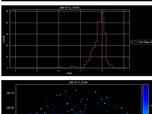
Programmes: [‘histoneheladata_lbv’]

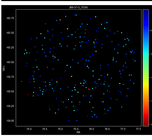
```
main_separator: 128
sample: 0.5
subparts: 10
rot_angle: 0.0
rot_axis: [0, 0, 1]
rot_points = rot_clump: 74

Dec: 0
Jan: 0
Feb: 0.0
Mar: 0.0
Apr: 0
May: 0
```





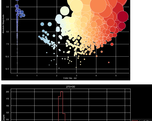






2024-07-0_TOS2

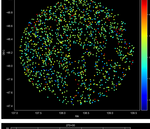
```
Dec: 0
Jan: 0
Feb: 0
Mar: 0.0
Apr: 0.0
May: 0
```

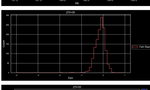


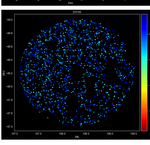
2024-08

Programmes: [‘slice’]

```
main_separator: 32
sample: 0.5
subparts: 12
rot_angle: 0.0
rot_axis: [0, 0, 1]
rot_points = rot_clump: 1856

Dec: 0
Jan: 0
Feb: 0
Mar: 0.0
Apr: 0.0
May: 0
```



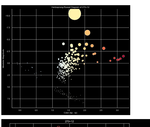


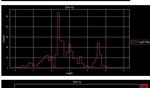


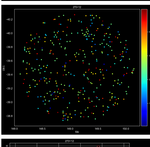
[78/12]

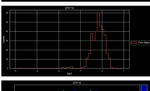
Programmes: ['./ELoCC']

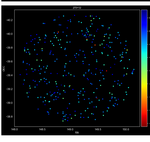
```
main_sequence: 55
turboFIT: 0
turboPT: 0
red_giants: 298
AGB: 0
red_giants + red_clump: 224

Ok: 0
Ok: 0
Ok: 0
Ok: 0
Ok: 0
Ok: 0
```







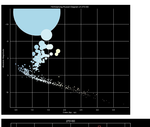


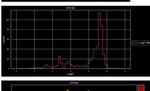


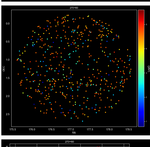
[78/13]

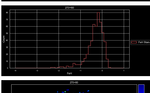
Programmes: ['./apogee', '-hwrc']

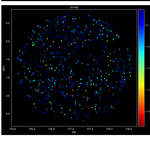
```
main_sequence: 495
turboFIT: 0
turboPT: 0
red_giants: 20
AGB: 0
red_giants + red_clump: 156

Ok: 0
Ok: 0
Ok: 0
Ok: 0
Ok: 0
Ok: 0
```







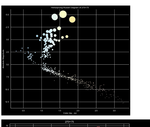


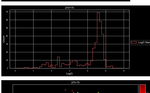


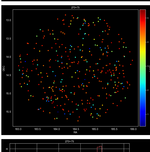
[78/14]

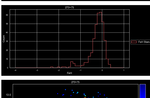
Programmes: ['./apogee']

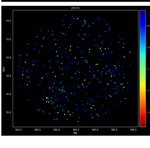
```
main_sequence: 252
turboFIT: 11
turboPT: 0
red_giants: 27
AGB: 0
red_giants + red_clump: 223

Ok: 0
Ok: 0
Ok: 148
Ok: 148
Ok: 0
```







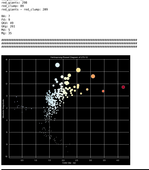


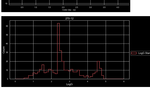


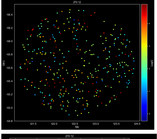
[78/15]

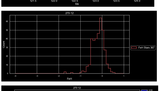
Programmes: ['./ELoCC']

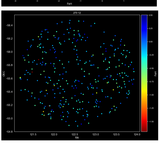
```
main_sequence: 10
turboFIT: 0
turboPT: 0
red_giants: 280
AGB: 0
red_giants + red_clump: 200

Ok: 0
Ok: 0
Ok: 29
Ok: 29
Ok: 0
Ok: 0
```












```
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27C-10-0_T01:

Programmes: ['histoHarbaris_10a']

main_sequence: 50
sample: 0
subgenre: 0
rot_genre: 0
rot_frame: 20
rot_axis = rot_rings: 80

Nx: 2
Ny: 10
Nz: 10
Mmin: 10
Mmax: 50
Mp: 2
==================================================
==================================================
```

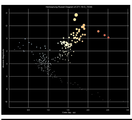

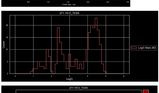

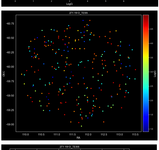

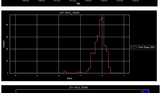

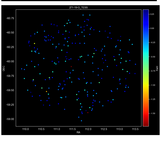

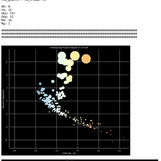


```
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27C-10:

Programmes: ['sapper']

main_sequence: 100
sample: 0
subgenre: 0
rot_genre: 0
rot_frame: 20
rot_axis = rot_rings: 45

Nx: 2
Ny: 10
Nz: 10
Mmin: 10
Mmax: 50
Mp: 2
==================================================
==================================================
```

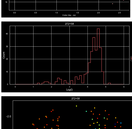

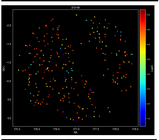

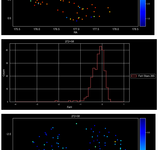

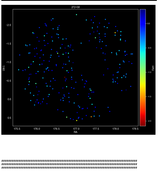


```
==================================================
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27C-10-0_T01:

Programmes: ['histoHarbaris_10a']

main_sequence: 155
sample: 0
subgenre: 0
rot_genre: 0
rot_frame: 20
rot_axis = rot_rings: 73

Nx: 2
Ny: 10
Nz: 10
Mmin: 10
Mmax: 50
Mp: 2
==================================================
==================================================
```
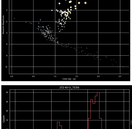
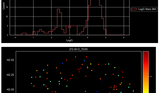
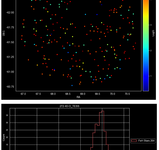
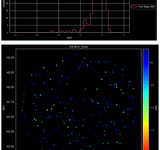
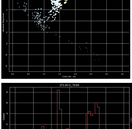



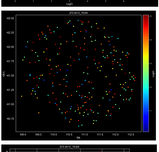


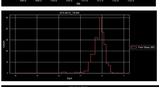


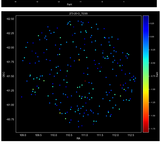



```
==================================================
==================================================

27C-10-0_T01:

Programmes: ['histoHarbaris_10a']

main_sequence: 70
sample: 0
subgenre: 0
rot_genre: 0
rot_frame: 20
rot_axis = rot_rings: 100

Nx: 2
Ny: 10
Nz: 10
Mmin: 10
Mmax: 50
Mp: 2
==================================================
==================================================
```









****

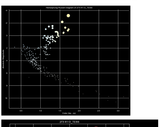
2270-W-0_5001

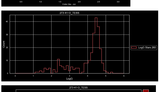
Programmer: ['Thistlethwaite,Ike']

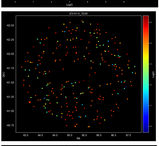
main_separator: 122
hunsort: 24
subgroup: 0
num_points: 91
num_clumps: 36
red_points = red_clump: 68

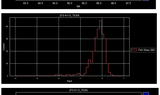
Ra: 0
Dec: 0
Mag: 129
Ra: 0
Dec: 0
Mag: 0

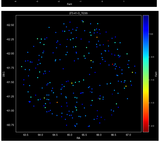
****











****

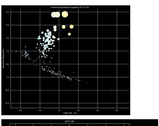
2270-N

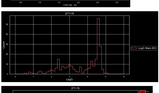
Programmer: ['Jasper']

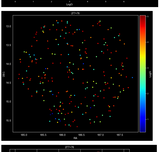
main_separator: 122
hunsort: 24
subgroup: 0
num_points: 91
num_clumps: 36
red_points = red_clump: 92

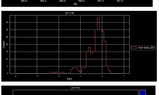
Ra: 0
Dec: 0
Mag: 0
Ra: 187
Dec: 0
Mag: 0

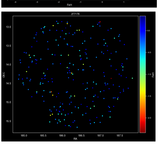
****











****

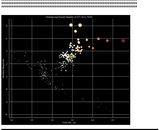
2270-W-0_5001

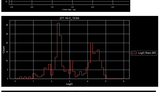
Programmer: ['Thistlethwaite,Ike']

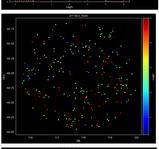
main_separator: 75
hunsort: 0
subgroup: 0
num_points: 283
num_clumps: 0
red_points = red_clump: 111

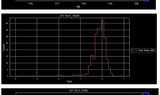
Ra: 0
Dec: 0
Mag: 0
Ra: 0
Dec: 0
Mag: 0

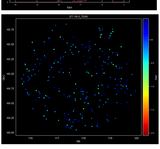
****











****

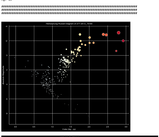
2270-W-0_5001

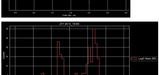
Programmer: ['Thistlethwaite,Ike']

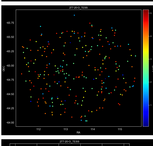
main_separator: 75
hunsort: 0
subgroup: 0
num_points: 283
num_clumps: 0
red_points = red_clump: 108

Ra: 0
Dec: 0
Mag: 0
Ra: 0
Dec: 0
Mag: 0

****






J27-20_Fe_Fe2O3
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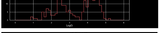
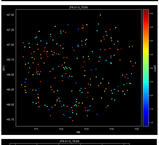
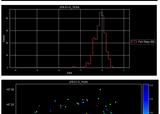
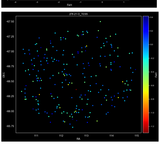


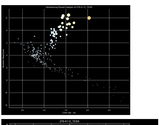


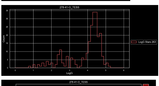


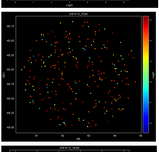


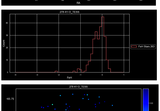
```
270-10-0_TOS1
```

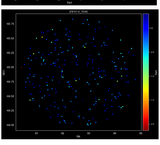
```
Programmer: ['Thistlethwaite,Alex']

mesh_separation: 10
horizon: 90
subgeometry: 0
rad_points: 70
rad_angle: 20
rad_points - rad_clump: 60

Nx: 0
Ny: 0
dxm: 0.4
dym: 0.4
Mx: 0
My: 0
Nz: 0
```



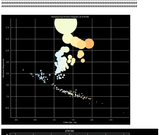


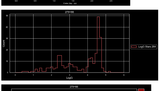


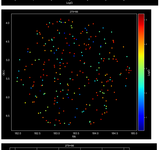


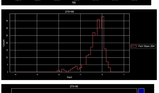


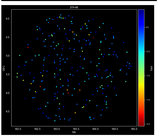
```
270-mb

Programmer: ['spaupre']

mesh_separation: 10
horizon: 90
subgeometry: 1
rad_angle: 20
rad_points: 20
rad_points - rad_clump: 50

Nx: 0
Ny: 0
dxm: 0.4
dym: 0.4
Mx: 100
My: 0
Nz: 0
```



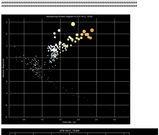


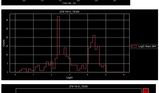


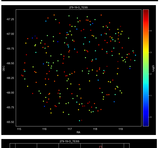


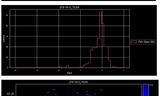


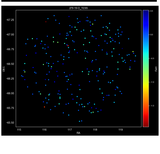
```
270-10-0_TOS1

Programmer: ['Thistlethwaite,Alex']

mesh_separation: 70
horizon: 20
subgeometry: 0
rad_points: 100
rad_angle: 20
rad_points - rad_clump: 124

Nx: 0
Ny: 0
dxm: 0.4
dym: 0.4
Mx: 0
My: 0
```



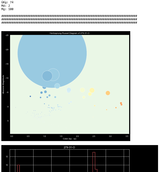


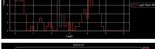


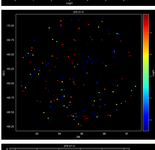


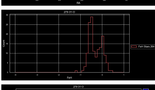


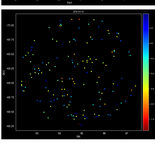
```
270-10-0

Programmer: ['Tatarian,Jake']

mesh_separation: 90
horizon: 90
subgeometry: 1
rad_angle: 20
rad_points: 4
rad_points - rad_clump: 194

Nx: 0
Ny: 0
dxm: 0.4
dym: 0.4
Mx: 0
My: 0
```



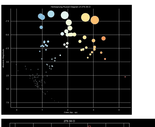


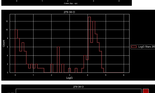


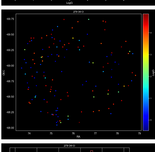


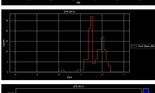


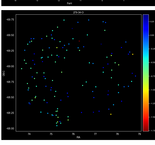

```
##################################################
##################################################

270-3d-0

Programkeys: ['tetarin_3dw']

main_separator: 35
hydro2D: 0
hydro3D: 0
subgrants: 0
rad_grants: 0
rad_points: 0
rad_clump: 100

Mp: 0
Vc: 0
Ms: 0
Mbp: 0
Mbs: 0
Mg: 360

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









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

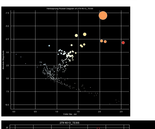
270-3d-0_TCG

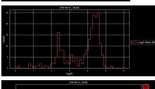
Programkeys: ['TestsGrabarkers_3dw']

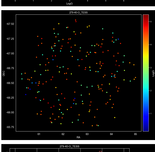
main_separator: 185
hydro2D: 0
hydro3D: 0
rad_grants: 124
rad_points: 0
rad_clump: 585

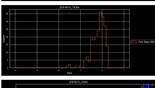
Mp: 0
Vc: 0
Ms: 0
Mbp: 0
Mbs: 0
Mg: 0

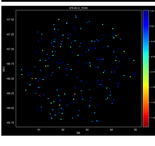
##################################################
##################################################
```









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

280-d1

Programkeys: ['apogee' 'hafa']

main_separator: 80
hydro2D: 0
hydro3D: 0
subgrants: 0
rad_grants: 0
rad_points: 0
rad_clump: 154

Mp: 0
Vc: 0
Ms: 0
Mbp: 0
Mbs: 0
Mg: 0

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

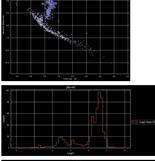

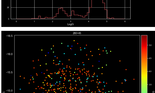

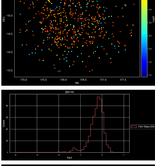

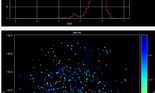

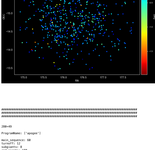


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##################################################
##################################################

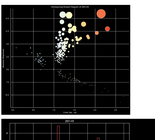
280-d2

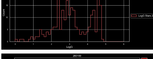
Programkeys: ['apogee']

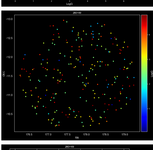
main_separator: 80
hydro2D: 0
hydro3D: 0
subgrants: 0
rad_grants: 0
rad_points: 0
rad_clump: 154

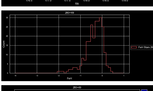
Mp: 0
Vc: 0
Ms: 0
Mbp: 0
Mbs: 0
Mg: 0

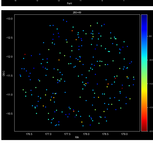
##################################################
##################################################
```









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2010-08

Programmer: ['apogee']

main_sequence: 110
turnoff: 0
sub_giants: 0
red_giants: 110
red_clump: 40
red_clump - red_clump: 93

Mv: 5
Vis: 10
Mag: 15
Mg: 20
==================================================
```

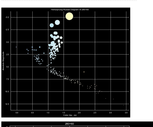

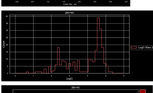

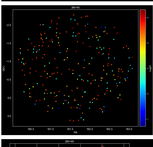

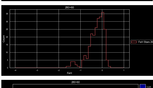

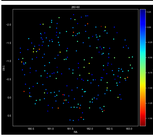


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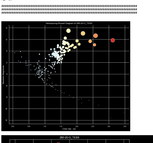
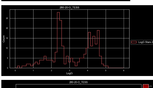
2008-08-8_TCOL

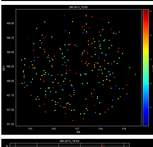
Programmer: ['hinterbeckers_lbw']

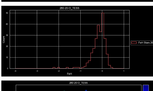
main_sequence: 55
turnoff: 0
subgiants: 0
red_giants: 55
red_clump: 40
red_clump - red_clump: 105

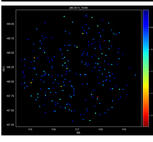
Mv: 5
Vis: 10
Mag: 15
Mg: 20
==================================================
```









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2008-17

Programmer: ['hole']

main_sequence: 55
turnoff: 0
subgiants: 0
red_giants: 110
red_clump: 40
red_clump - red_clump: 105

Mv: 5
Vis: 10
Mag: 15
Mg: 20
==================================================
```

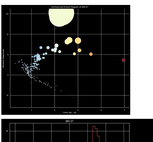

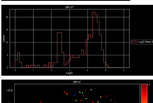

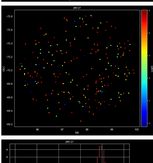

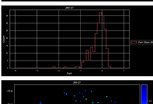

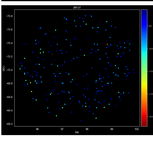


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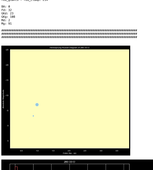
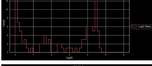
2008-15-0

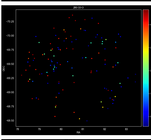
Programmer: ['hinton_lbw']

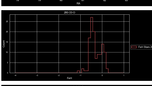
main_sequence: 55
turnoff: 0
subgiants: 0
red_giants: 0
red_clump: 40
red_clump - red_clump: 210

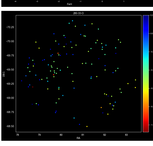
Mv: 5
Vis: 10
Mag: 15
Mg: 20
Mu: 25
==================================================
```











```
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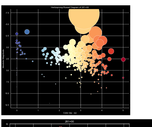
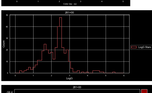
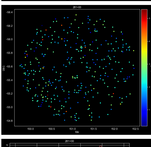
201:00
Programfamer: I'ch:ch7 ]

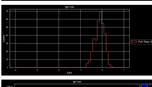
main_sequence: 0
turnoff: 0
turnoff2: 0
num_pieces: 179
num_plies: 0
num_points = num_rules: 292

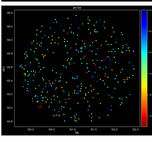
Wn: 0
Bn: 0
Ww: 0
Bw: 22
Wr: 0
Br: 0
==========================================================
==========================================================
```











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202:00
Programfamer: I'ch:ch7 ]

main_sequence: 10
turnoff: 0
turnoff2: 0
num_pieces: 177
num_plies: 0
num_points = num_rules: 179

Wn: 0
Bn: 0
Ww: 19
Bw: 19
Wr: 0
Br: 0
==========================================================
==========================================================
```

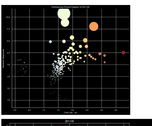

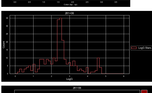

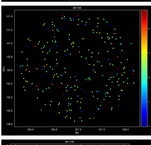

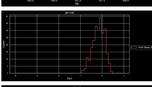

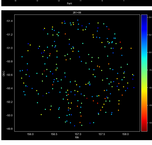

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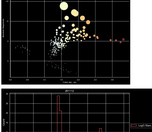
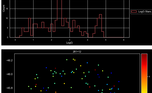
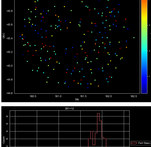
203:c2
Programfamer: I'ch:ch7 ]

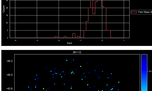
main_sequence: 11
turnoff: 0
turnoff2: 0
num_pieces: 177
num_plies: 0
num_points = num_rules: 108

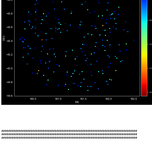
Wn: 0
Bn: 0
Ww: 0
Bw: 22
Wr: 0
Br: 0
==========================================================
==========================================================
```











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204:00
Programfamer: I'ch:ch7 ]

main_sequence: 10
turnoff: 0
turnoff2: 0
num_pieces: 251
num_plies: 0
num_points = num_rules: 177

Wn: 22
Bn: 0
Ww: 0
Bw: 19
Wr: 0
Br: 0
==========================================================
==========================================================
```

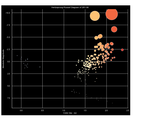

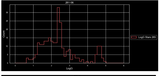

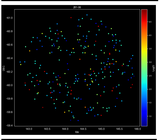

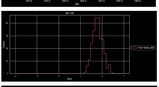

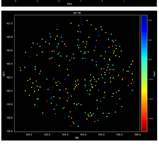

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2011-10-0

Programmes: ['Station_10w']

main_sequence: 40
turnoff: 23
subgiants: 0
giants: 0
red_giants: 0
red_giants + red_clump: 105

Dec: 0
Jan: 0
Feb: 0
Mar: 0
Apr: 0
May: 0
Jun: 0
==================================================
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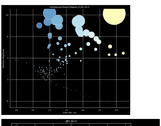
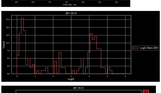
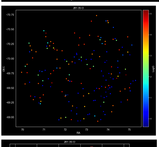
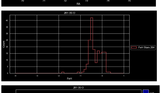
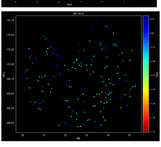
```











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2011-10-0_Hills

Programmes: ['Colorbarbaro_10w']

main_sequence: 40
turnoff: 23
subgiants: 0
giants: 0
red_giants: 0
red_giants + red_clump: 99

Dec: 0
Jan: 0
Feb: 0
Mar: 112
Apr: 0
May: 0
Jun: 0
==================================================
==================================================
```

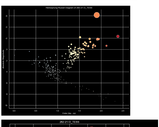

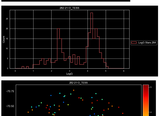

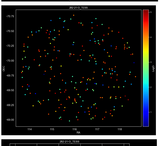

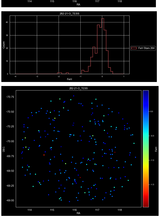

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2011-11-1

Programmes: ['Station_10w']

main_sequence: 38
turnoff: 23
subgiants: 0
giants: 0
red_giants: 0
red_giants + red_clump: 172

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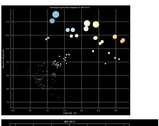
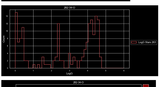
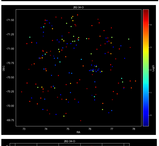
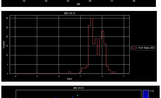
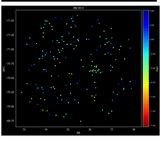
```











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2011-12-1

Programmes: ['Menelaos_10w']

main_sequence: 47
turnoff: 0
subgiants: 0
giants: 0
red_giants: 0
red_giants + red_clump: 197

Dec: 0
Jan: 0
Feb: 0
Mar: 0
Apr: 0
May: 0
Jun: 0
==================================================
==================================================
```
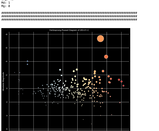
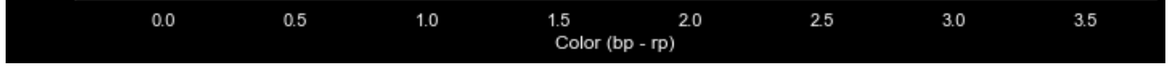
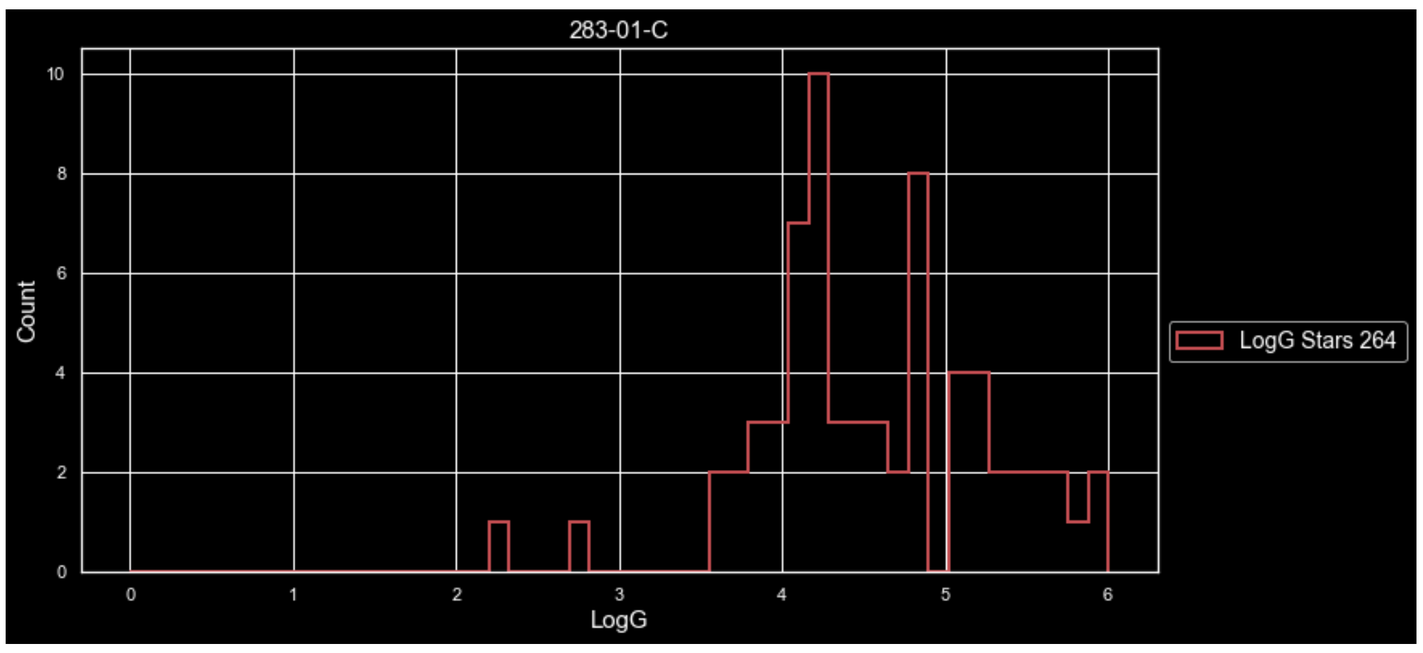
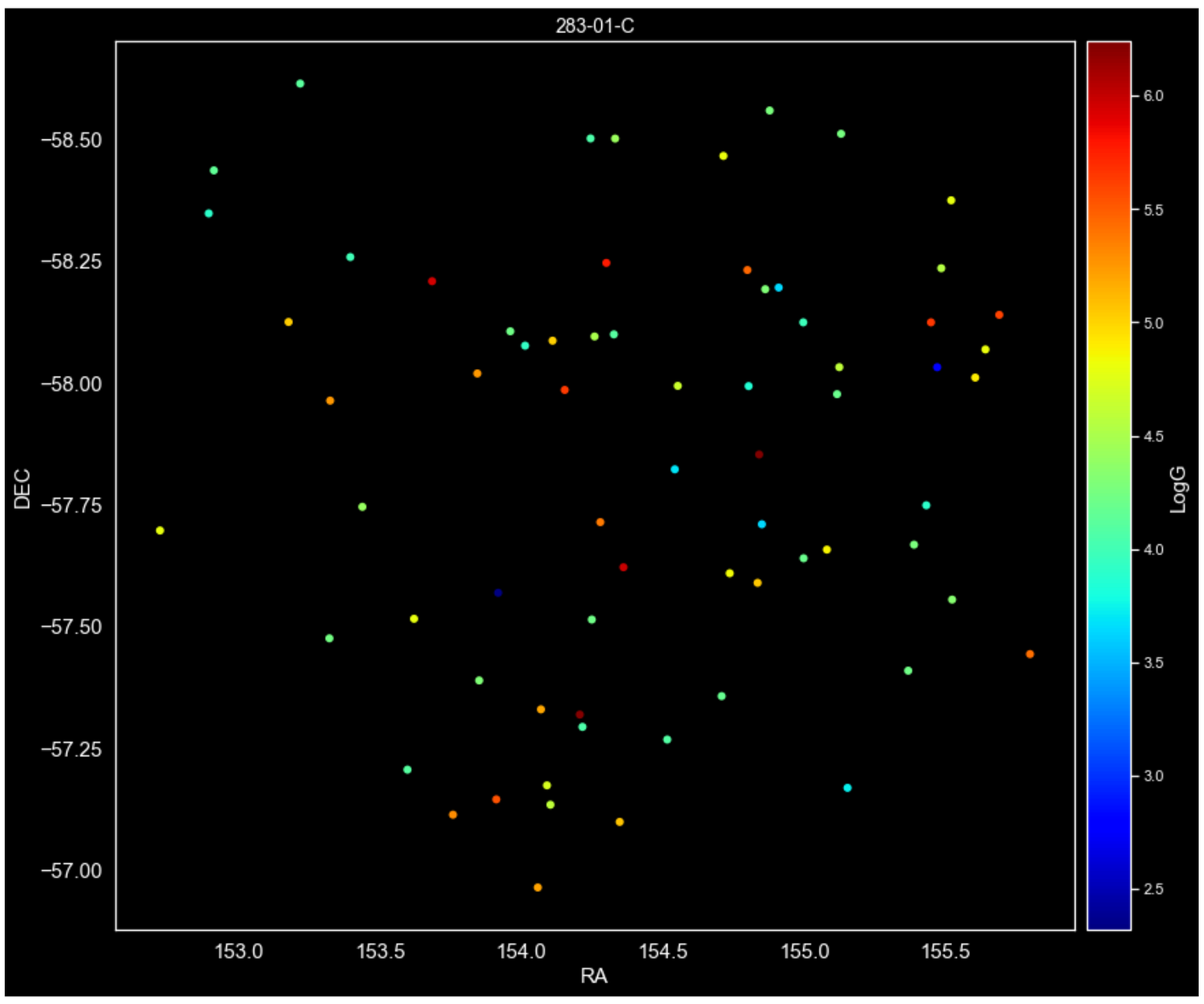
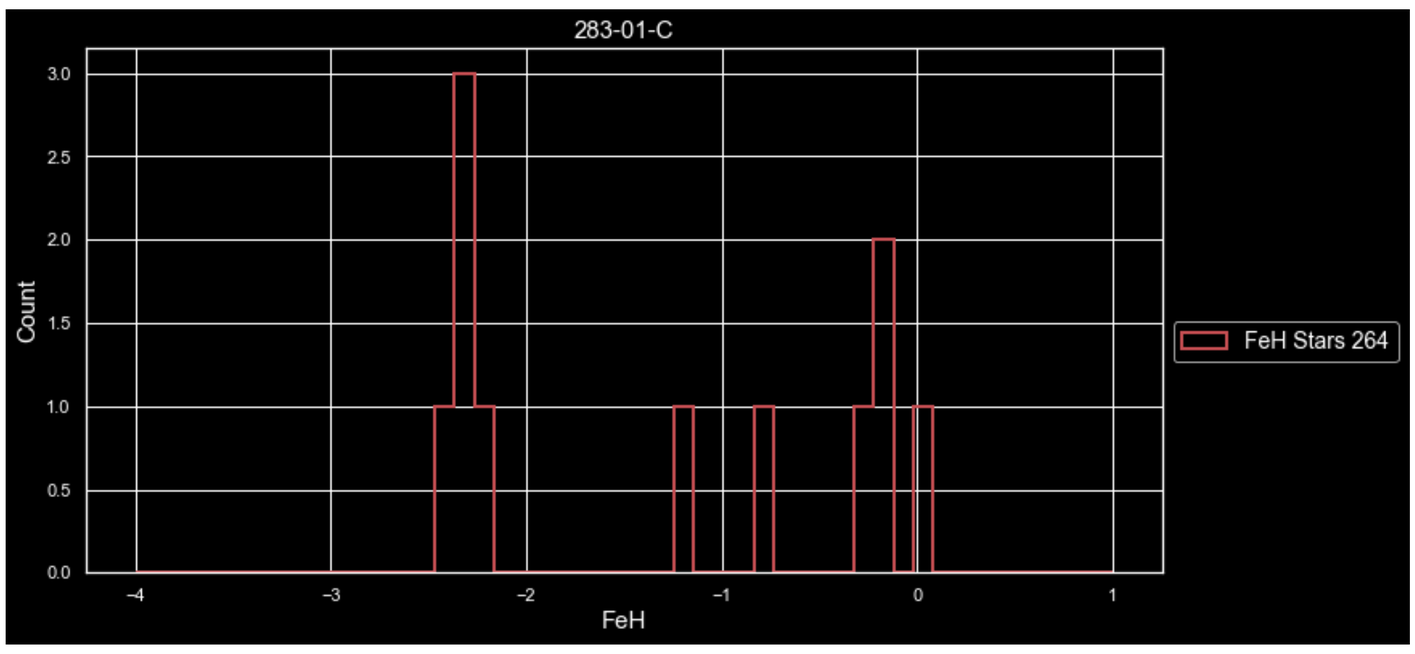
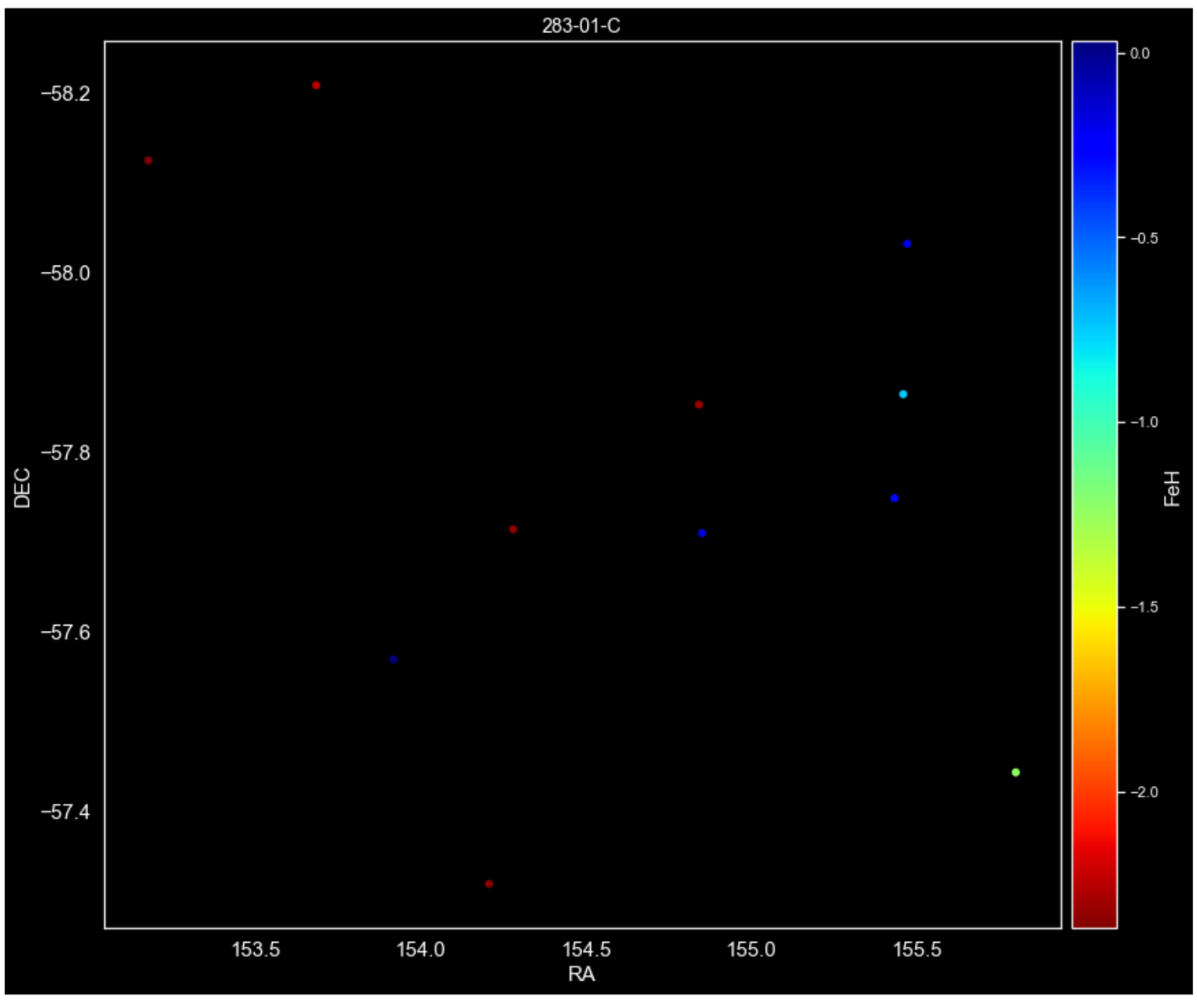




0.0
0.5
1.0
1.5
2.0
2.5
3.0
3.5
Color (bp - rp)


283-01-C
Count
LogG
LogG Stars 264


283-01-C
DEC
RA
LogG


283-01-C
Count
FeH
FeH Stars 264


283-01-C
DEC
RA
FeH

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Done!
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In [2]: