```
Python 3.7.8 (default, Jun 24 2020, 07:29:10)
[GCC 4.8.5 20150623 (Red Hat 4.8.5-44)] on linux2 Type "help", "copyright", "credits" or "license" for more information.
IPython 7.2.0 -- An enhanced Interactive Python.

In [1]: run/usr/local/cosmo/pkgs/cosmo-dy Fullr2 DR 3 ip/, wdir=/home/jcosme/projects/
Using/cosmo/pkgs/cosmo/scripts/cosmo-dy/scripts
CONFIG

Class 0: 10
Class 1: 100
Class 2: 1000
Class 3: 5100
Class 4: 10000
Class 5: 15100
Class 6: 20000
Class 7: 5000
Class 8: 1000

Fn: 42212
Wdir: 52100
Nbins: 50000
Nc: 10000
Nr: 10000

#II: Stars #CONT

Nc: Stars 5100

Mg_g: Stars 5200
Mg_r: Stars 10000
Mg_i: Stars 10000
Mg_z: Stars 10000

SDW_gr: Stars 20000
SDW_ri: Stars 20000
SDW_iz: Stars 20000
SDW_zY: Stars 12001

DEW_gr: Stars 30000
DEW_ri: Stars 30000
DEW_iz: Stars 30000
DEW_zY: Stars 30000

Mg_gr: Stars 7500
Mg_ri: Stars 7500
Mg_iz: Stars 7500
Mg_zY: Stars 5000

Mg_gr: Stars 15100
Mg_ri: Stars 15100
Mg_iz: Stars 15100
Mg_zY: Stars 10000

Fullbr: 1300

Subset of Fullbr: 230

==========

CONFIG
CONFIG
CONFIG/DR
CONFIG
CONFIG
CC_CMB_mag
CC_Fullr_mag
CC_CMB_err
CC_CMB2_err
CC_CMB3_err
CC_CMB4_err
CC_CMB5_err
CC_CMB6_err
CC_CMB7_err
CC_CMB8_err
CC_CMB9_err
CC_CMB10_err
CC_CMB11_err
CC_CMB12_err
CC_CMB13_err
CC_CMB14_err
CC_CMB15_err
CC_CMB16_err
CC_CMB17_err
CC_CMB18_err
CC_CMB19_err
CC_CMB20_err
CC_CMB21_err
CC_CMB22_err
CC_CMB23_err
CC_CMB24_err
CC_CMB25_err
CC_CMB26_err
CC_CMB27_err
CC_CMB28_err
CC_CMB29_err
CC_CMB30_err
CC_CMB31_err
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CC_CMB39_err
CC_CMB40_err
CC_CMB41_err
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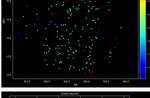

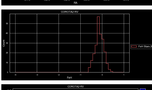

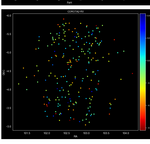

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CONFIG:

Programmes: ['opsqso']

main_separator: 32
subsample: 1
subgalaxies: 0
snap_number: 99
real_number: 100
real_clumps: [10,0,0,0
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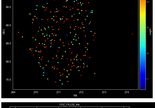

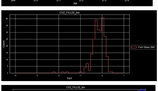

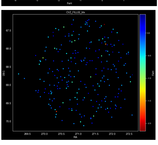

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CCD_2018.pro

Programmer: I'ss_Ka'r'

mem_separator: 50
hotpix: 85
mag_limit: 10
red_gamma: 0.2
blue_gamma: 0.2
red_gamma = red_flag: 84

Nx: 4
Ny: 4
Mdx: 20
Mdy: 20
Mx: 0
My: 0
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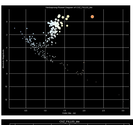

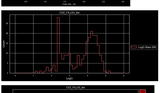

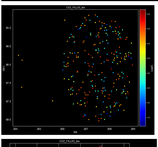

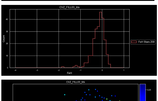

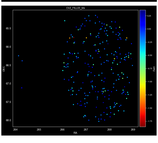

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CCD_2002.pro

Programmer: I'ss_Ka'r'

mem_separator: 70
hotpix: 85
mag_limit: 10
red_gamma: 0.2
blue_gamma: 0.2
red_gamma = red_flag: 125

Nx: 2
Ny: 2
Mdx: 20
Mdy: 20
Mx: 0
My: 0
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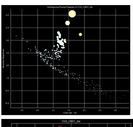

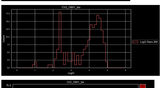

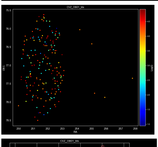

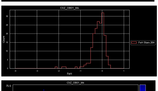

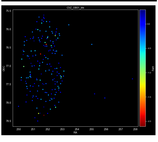

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CCD_2002.pro

Programmer: I'ss_Ka'r'

mem_separator: 50
hotpix: 85
mag_limit: 10
red_gamma: 0.2
blue_gamma: 0.2
red_gamma = red_flag: 185

Nx: 2
Ny: 2
Mdx: 20
Mdy: 20
Mx: 0
My: 0
==========================================
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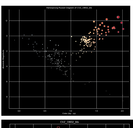
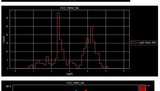
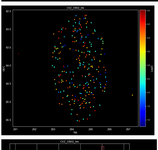
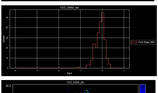
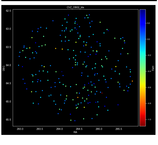
```











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CCD_2002.pro

Programmer: I'ss_Ka'r'

mem_separator: 70
hotpix: 85
mag_limit: 10
red_gamma: 0.2
blue_gamma: 0.2
red_gamma = red_flag: 112

Nx: 2
Ny: 2
Mdx: 20
Mdy: 20
Mx: 0
My: 0
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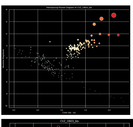
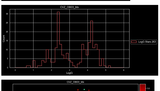
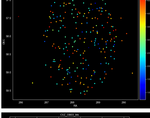
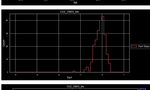
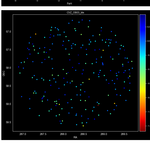
==========================================
```









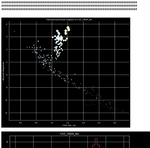


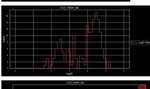

```
##########################################################
CO2_2004_xcv

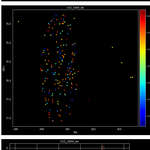
Programmer: I'cos_Xcv'I

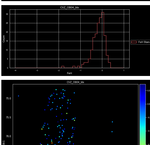
main_separator: 95
turnoff: 20
subparts: 3
min_points: 10
red_points: 10
red_clump = red_clump: 124

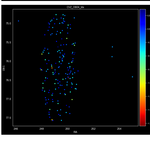
Day: 2
Year: 2004
Hour: 20
Min: 15
Sec: 0
Mon: 0
##########################################################
```









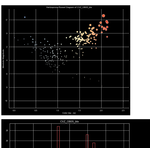


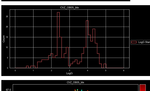

```
##########################################################
CO2_2004_xcv

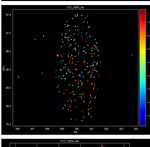
Programmer: I'cos_Xcv'I

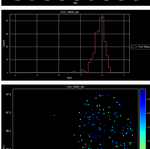
main_separator: 95
turnoff: 20
subparts: 3
min_points: 10
red_points: 10
red_clump = red_clump: 126

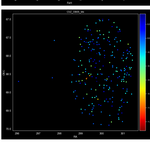
Day: 2
Year: 2004
Hour: 20
Min: 15
Sec: 0
Mon: 0
##########################################################
```









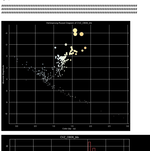


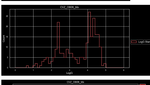

```
##########################################################
CO2_2004_xcv

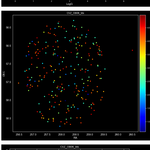
Programmer: I'cos_Xcv'I

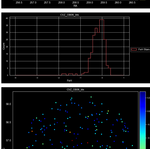
main_separator: 95
turnoff: 20
subparts: 3
min_points: 10
red_points: 10
red_clump = red_clump: 182

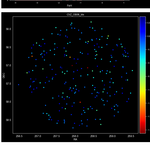
Day: 2
Year: 2004
Hour: 20
Min: 15
Sec: 0
Mon: 0
##########################################################
```









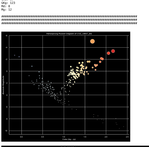


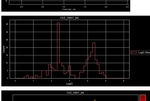

```
##########################################################
CO2_2004_xcv

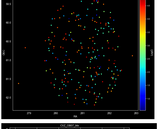
Programmer: I'cos_Xcv'I

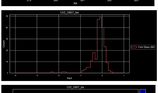
main_separator: 60
turnoff: 20
subparts: 3
min_points: 10
red_points: 10
red_clump = red_clump: 111

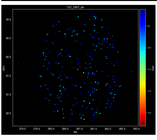
Day: 2
Year: 2004
Hour: 20
Min: 15
Sec: 0
Mon: 0
##########################################################
```









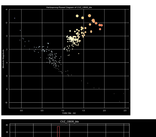


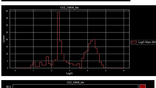

```
CSC_2008_xrv

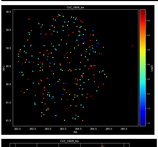
Programmer: ['rcs_kyr']

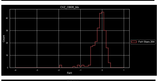
main_sequence: 50
turboFIT: 0
subgiants: 50
red_giants: 100
red_clump: 50
red_giants + red_clump: 99

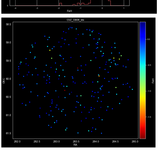
Dec: 0
Ra: 0
dpc: 10
Mag: 19
Mu: 0
Mv: 0
```









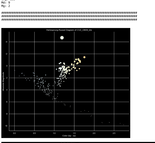


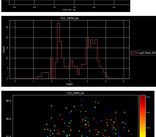

```
CSC_2008_xrv

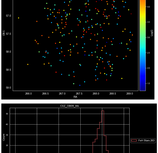
Programmer: ['rcs_kyr']

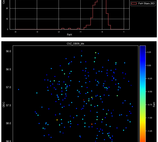
main_sequence: 75
turboFIT: 0
subgiants: 75
red_giants: 150
red_clump: 50
red_giants + red_clump: 97

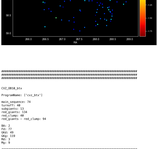
Dec: 0
Ra: 0
dpc: 10
Mag: 19
Mu: 0
Mv: 0
```









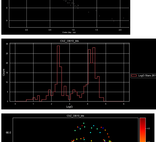


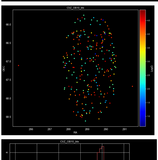

```
CSC_2008_xrv

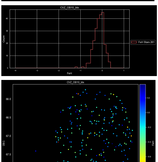
Programmer: ['rcs_kyr']

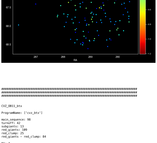
main_sequence: 75
turboFIT: 0
subgiants: 100
red_giants: 150
red_clump: 50
red_giants + red_clump: 99

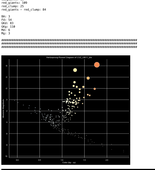
Dec: 0
Ra: 0
dpc: 10
Mag: 19
Mu: 0
Mv: 0
```












```
CSC_2008_xrv

Programmer: ['rcs_kyr']

main_sequence: 50
turboFIT: 0
subgiants: 100
red_giants: 200
red_clump: 50
red_giants + red_clump: 94

Dec: 0
Ra: 0
dpc: 10
Mag: 19
Mu: 0
Mv: 0
```

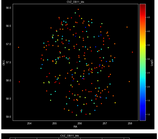
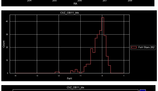
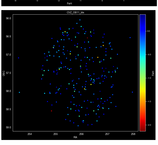


```
CSC_2008_xrv

Programmer: ['rcs_kyr']

main_sequence: 50
turboFIT: 0
subgiants: 200
red_giants: 300
red_clump: 50
red_giants + red_clump: 84

Dec: 0
Ra: 0
dpc: 10
Mag: 19
Mu: 0
Mv: 0
```

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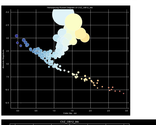
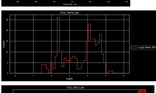
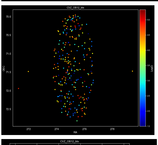
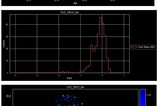
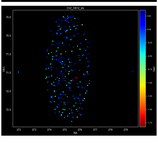
CGC_BH3.inv

Programkamer: [~/cc_inv/]

main_sequence: 180
subgiants: 0
subgiants: 0
red_giants: 0
red_giants: 0
red_giants - red_clump: 61

Nr: 0
Nr: 0
Nr: 0
Nr: 27
Nr: 0
Nr: 0
==========================================
==========================================
```

```
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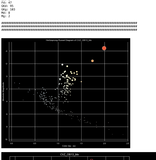
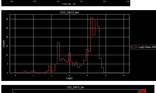
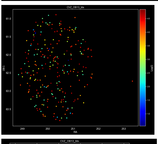
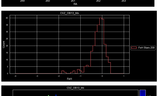
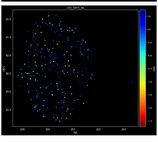
CGC_BH3.inv

Programkamer: [~/cc_inv/]

main_sequence: 180
subgiants: 0
subgiants: 0
red_giants: 0
red_giants: 0
red_giants - red_clump: 76

Nr: 0
Nr: 0
Nr: 0
Nr: 30
Nr: 0
Nr: 0
==========================================
==========================================
```

```
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CGC_BH3.inv

Programkamer: [~/cc_inv/]

main_sequence: 164
subgiants: 0
subgiants: 0
red_giants: 0
red_giants: 0
red_giants - red_clump: 74

Nr: 0
Nr: 0
Nr: 0
Nr: 28
Nr: 0
Nr: 0
==========================================
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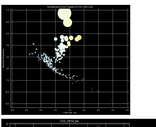
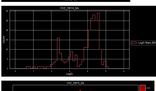
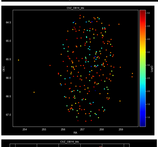
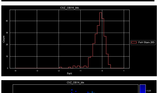
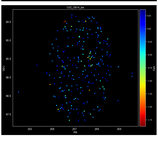
```

```
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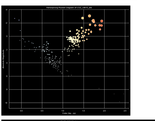
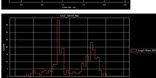
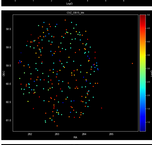
CGC_BH3.inv

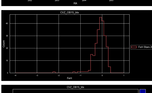
Programkamer: [~/cc_inv/]

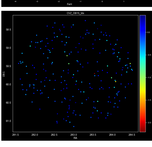
main_sequence: 78
subgiants: 0
subgiants: 0
red_giants: 0
red_giants: 0
red_giants - red_clump: 162

Nr: 0
Nr: 0
Nr: 0
Nr: 29
Nr: 0
Nr: 0
==========================================
==========================================
```





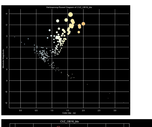


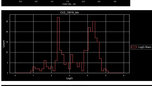
```
CIC_DEC8.bin

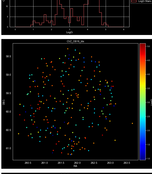
Programmer: [ron_bir]

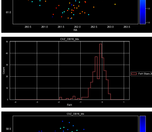
main_separator: 32
turnoff: 26
sep_angle: 30
cmd_points: 30
cmd_clump: 30
cmd_points = cmd_clump: 98

Nx: 2
Ny: 20
dmin: 40
dmax: 49
Mx: 2
My: 2
```







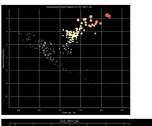


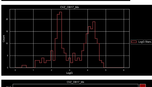
```
CIC_DEC8.bin

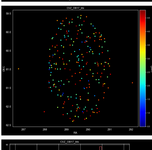
Programmer: [ron_bir]

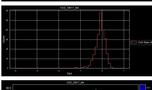
main_separator: 56
turnoff: 26
sep_angle: 32
cmd_points: 32
cmd_clump: 30
cmd_points = cmd_clump: 115

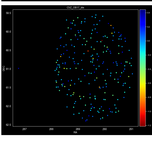
Nx: 2
Ny: 20
dmin: 40
dmax: 49
Mx: 2
My: 2
```









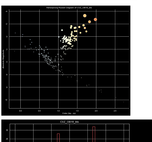


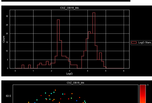
```
CIC_DEC8.bin

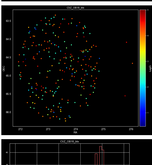
Programmer: [ron_bir]

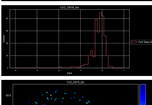
main_separator: 75
turnoff: 26
sep_angle: 30
cmd_points: 110
cmd_clump: 30
cmd_points = cmd_clump: 81

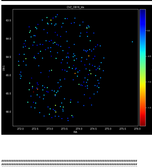
Nx: 2
Ny: 20
dmin: 40
dmax: 49
Mx: 2
My: 2
```









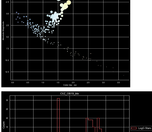


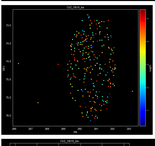
```
CIC_DEC8.bin

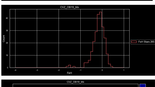
Programmer: [ron_bir]

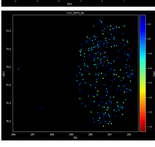
main_separator: 56
turnoff: 26
sep_angle: 32
cmd_points: 124
cmd_clump: 30
cmd_points = cmd_clump: 88

Nx: 2
Ny: 20
dmin: 40
dmax: 49
Mx: 2
My: 2
```







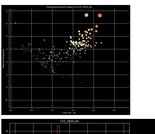


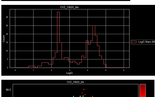

```
CHI_DEPTH_MA

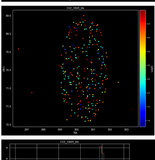
Programmer: ['rio_kir']

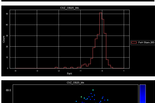
main_sequence: 40
subplots: 1
subpoints: 12
rot_angle: 0
rot_clump: 30
rot_points: rot_clump: 45

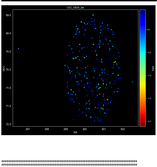
Nx: 5
Ny: 5
Nz: 40
Nmp: 270
Nc: 5
Nu: 2
```









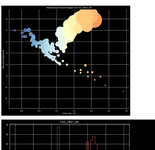


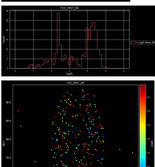

```
CHI_DEPTH_MA

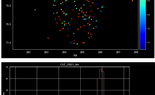
Programmer: ['rio_kir']

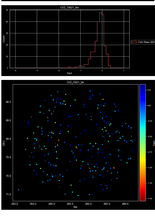
main_sequence: 70
subplots: 40
subpoints: 12
rot_angle: 180
rot_clump: 30
rot_points: rot_clump: 45

Nx: 5
Ny: 5
Nz: 40
Nmp: 350
Nc: 5
Nu: 2
```







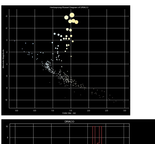


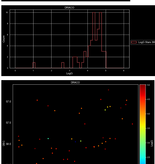

```
DEPTH

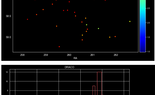
Programmer: ['kelly_depth']

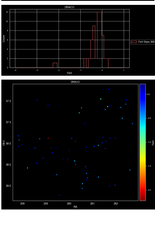
main_sequence: 32
subplots: 1
subpoints: 4
rot_angle: 0
rot_clump: 0
rot_points: rot_clump: 315

Nx: 2
Ny: 2
Nz: 16
Nmp: 32
Nc: 2
Nu: 1
```







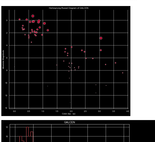


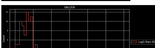

```
GOLCON

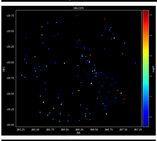
Programmer: ['vanpam']

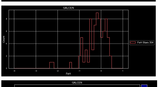
main_sequence: 10
subplots: 1
subpoints: 4
rot_angle: 270
rot_clump: 0
rot_points: rot_clump: 330

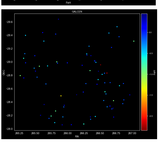
Nx: 2
Ny: 2
Nz: 5
Nmp: 10
Nc: 2
Nu: 1
```









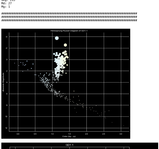


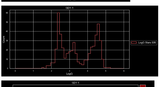
GEO-1

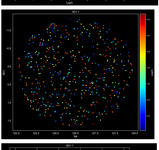
Programmes: ['hats_stream']

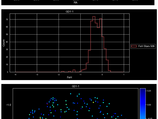
```
main_sequence: 367
turnoff: 16
subgiants: 70
red_giants: 292
red_clump: 30
red_giants - red_clump: 386

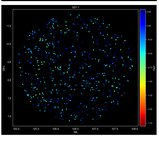
Ha: 1
Hb: 1
Hd: 14
Hg: 14
Hr: 17
Hz: 17
```









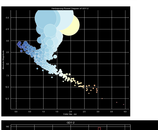


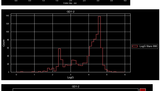
GEO-2

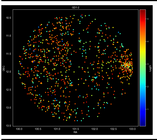
Programmes: ['hats_stream']

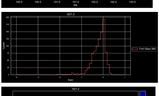
```
main_sequence: 464
turnoff: 18
subgiants: 75
red_giants: 319
red_clump: 30
red_giants - red_clump: 372

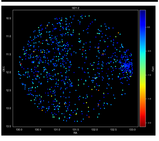
Ha: 4
Hb: 4
Hd: 16
Hg: 16
Hr: 17
Hz: 17
```









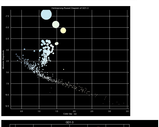


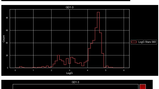
GEO-3

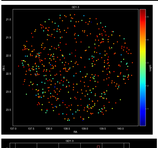
Programmes: ['hats_stream']

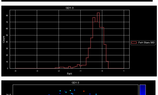
```
main_sequence: 342
turnoff: 12
subgiants: 58
red_giants: 280
red_clump: 30
red_giants - red_clump: 140

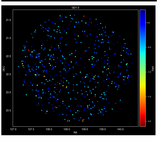
Ha: 4
Hb: 4
Hd: 15
Hg: 15
Hr: 17
Hz: 17
```









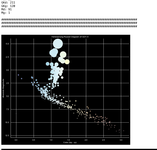


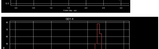
GEO-4

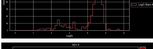
Programmes: ['hats_stream']

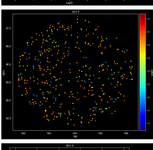
```
main_sequence: 283
turnoff: 9
subgiants: 54
red_giants: 214
red_clump: 30
red_giants - red_clump: 154

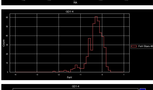
Ha: 5
Hb: 5
Hd: 14
Hg: 14
Hr: 17
Hz: 17
```

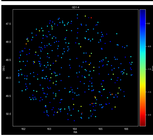










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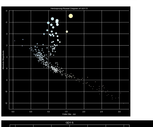
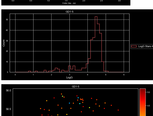
GEO_5

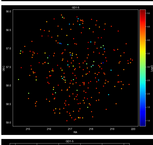
Programmer: ['kelly_stryker']

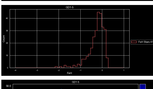
main_sequence: 2B4
turbo?: N
subgenre: 4
rot_period: 5.0
rot_frame: 1
rot_points = rot_time: 173

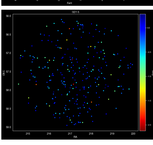
Mo: 0
Yr: 0
Day: 23
Hour: 0
Min: 0
Sec: 0
```









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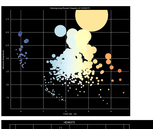
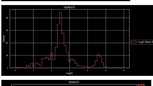
HEMATE

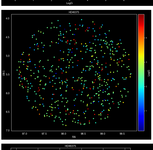
Programmer: ['marvin']

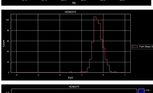
main_sequence: K5
turbo?: N
subgenre: 4
rot_period: 52.0
rot_frame: 1
rot_points = rot_time: 173

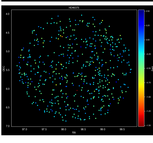
Mo: 10
Yr: 0
Day: 18
Hour: 0
Min: 0
Sec: 0
```









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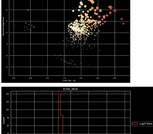
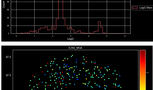
SCHAL_MUN

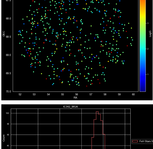
Programmer: ['mango']

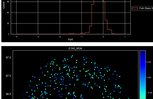
main_sequence: 9A
turbo?: N
subgenre: 3
rot_period: 24.0
rot_frame: 0M0
rot_points = rot_time: 333

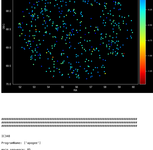
Mo: 11
Yr: 0
Day: 8
Hour: 0
Min: 0
Sec: 0
```









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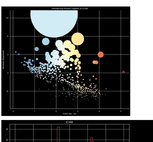
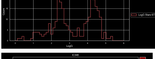
ACAME

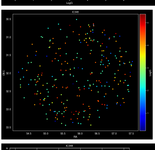
Programmer: ['apogee']

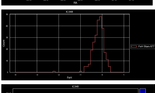
main_sequence: B5
turbo?: N
subgenre: 4
rot_period: 37.0
rot_frame: 1
rot_points = rot_time: 324

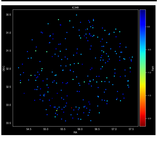
Mo: 10
Yr: 0
Day: 20
Hour: 0
Min: 0
Sec: 0
```









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Y-CMD_09
Programmer: ['mrv']

mcs_sequence: 50
hjcutoff: 35
mag_cutoff: 20
red_points: 400
blue_points: 400
red_points + red_flag: 516

Mv: 35
Mag: 20
Mag: 20
Mag: 20
Mv: 35

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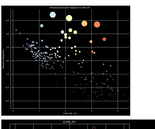

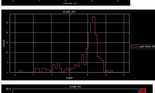

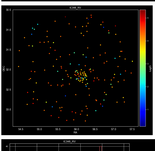

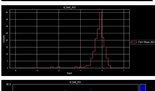

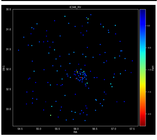


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NEO_MEDIUM
Programmer: ['sampar', 'hsp_aperture']

mcs_sequence: 180
hjcutoff: 35
magcutoff: 20
red_points: 400
blue_points: 400
red_points + red_flag: 300

Mv: 35
Mv: 35
Mag: 19
Mag: 19
Mv: 35
Mag: 20

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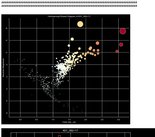

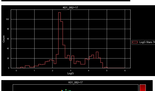

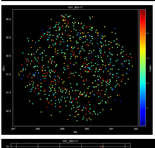

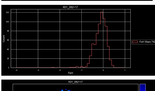

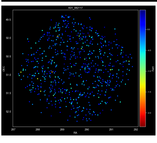


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NEO_HEAVY
Programmer: ['sampar', 'hsp_aperture']

mcs_sequence: 145
hjcutoff: 35
magcutoff: 20
red_points: 473
blue_points: 473
red_points + red_flag: 296

Mv: 35
Mv: 35
Mag: 19
Mag: 19
Mv: 35
Mag: 20

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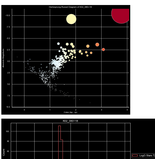

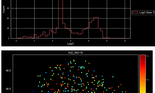

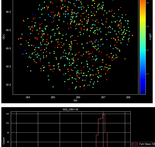

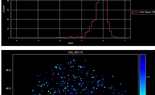

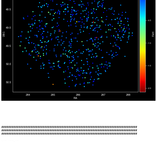


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NEO_BTCUM
Programmer: ['sampar', 'hsp_aperture']

mcs_sequence: 183
hjcutoff: 35
magcutoff: 20
red_points: 418
blue_points: 418
red_points + red_flag: 293

Mv: 35
Mv: 35
Mag: 19
Mag: 19
Mv: 35
Mag: 20

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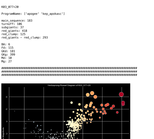
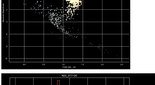
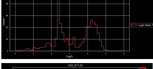
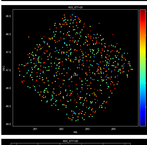
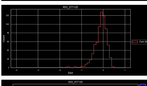
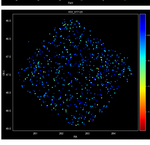










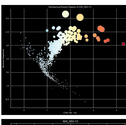


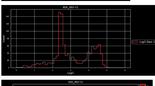

```
mem_mbin=10

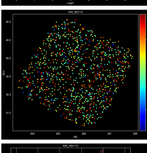
Programmer: ['apogee' 'hsq_apokasc' 'hsq_kic']

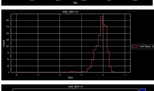
main_separator: 40
hsq_cutoff: 50
subpoints: 20
hsq_points: 40
red_clump: 200
hsq_points - red_clump: 530

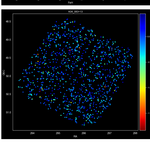
Mn: 15
Max: 25
Mag: 200
Mg: 40
Mg: 40
```











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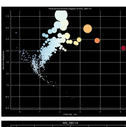
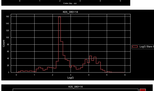
mem_mbin=5

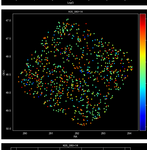
Programmer: ['apogee' 'hsq_apokasc' ]

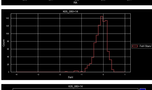
main_separator: 140
hsq_cutoff: 50
subpoints: 400
hsq_points: 40
red_clump: 430
hsq_points - red_clump: 430

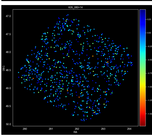
Mn: 15
Max: 25
Mag: 200
Mg: 40
Mg: 40
```









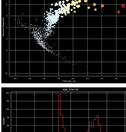


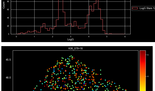
```
mem_mbin=10

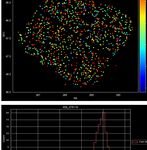
Programmer: ['apogee' 'hsq_apokasc' 'hsq_kic']

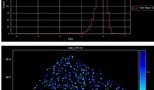
main_separator: 210
hsq_cutoff: 50
subpoints: 40
hsq_points: 40
red_clump: 200
hsq_points - red_clump: 540

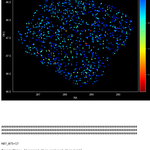
Mn: 5
Max: 25
Mag: 150
Mg: 40
Mg: 40
```









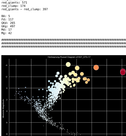


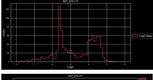
```
mem_mbin=2

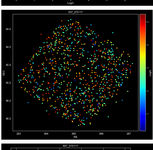
Programmer: ['apogee' 'hsq_apokasc' 'hsq_kic']

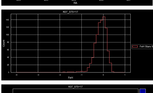
main_separator: 256
hsq_cutoff: 50
subpoints: 40
hsq_points: 24
red_clump: 200
hsq_points - red_clump: 397

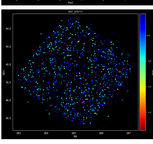
Mn: 5
Max: 25
Mag: 150
Mg: 40
Mg: 40
```







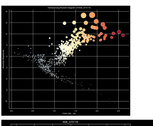


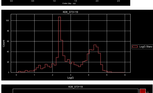


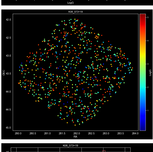
```
SOR_BTH/JP
=================================================
Prog=ADRAM1 ['sapsym' 'hsq_apstar']

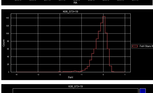
hsq_separator: 0%
hsq=0.01 ev
subgroups: 67
ind_points: 518
ind_clump: 0
ind_points - ind_clump: 363

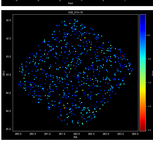
Dir: 0
Ht: 0.5
dbz: 20
dbz: 30
Mr: 0
Mu: 0
Mu: 0
=================================================
```







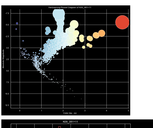


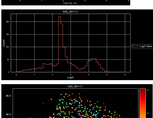


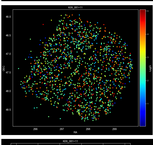
```
SOR_BEI/JP
=================================================
Prog=ADRAM1 ['sapsym' 'hsq_apstar']

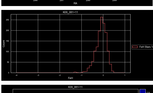
hsq_separator: 0%
hsq=0.01 ev
subgroups: 67
ind_points: 1,000
ind_clump: 488
ind_points - ind_clump: 525

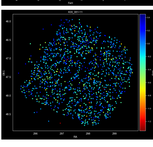
Dir: 0
Ht: 0.5
dbz: 20
dbz: 30
Mr: 0
Mu: 0
=================================================
```







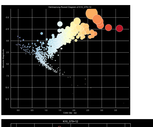


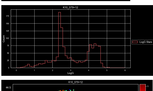


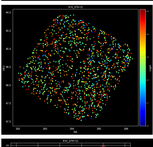
```
KUE_BTH/JJ
=================================================
Prog=ADRAM1 ['sapsym' 'hsq_bsc']

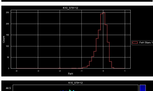
hsq_separator: 0%
hsq=0.01 ev
subgroups: 67
ind_points: 384
ind_clump: 0
ind_points - ind_clump: 384

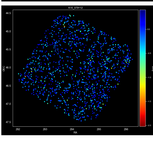
Dir: 0
Ht: 0.5
dbz: 20
dbz: 30
Mr: 0
Mu: 0
=================================================
```







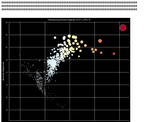


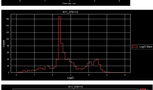


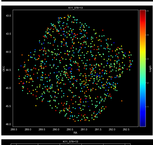
```
KCS_BTH/JJ
=================================================
Prog=ADRAM1 ['sapsym' 'hsq_apstar']

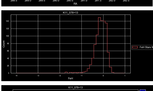
hsq_separator: 1%
hsq=0.01 ev
subgroups: 72
ind_points: 714
ind_clump: 200
ind_points - ind_clump: 513

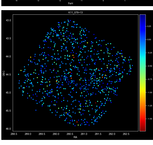
Dir: 0
Ht: 0.5
dbz: 20
dbz: 30
Mr: 0
Mu: 0
=================================================
```

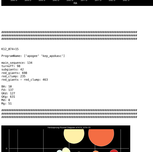


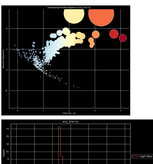


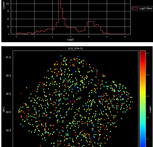


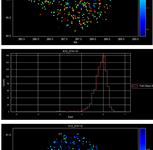


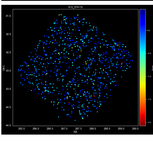


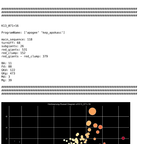


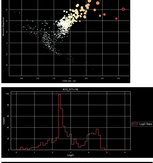


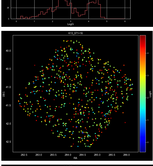


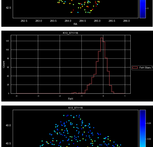


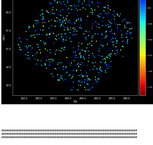


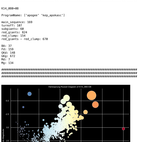


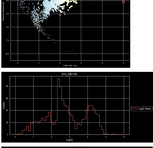


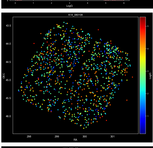


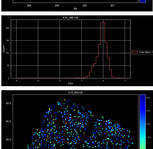


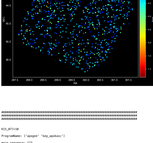


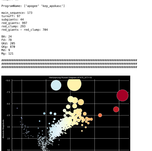












```
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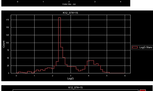
ECE_BETA=25

Program name: ['epsilon' 'help_epsilon']

main_separator: 1234
tunefit: 0
subgenetic: 40
rand_genetic: 525
rand_frame: 200
rand_points = rand_frame: 400

Nm: 20
Ns: 10
mem: 10
mem: 10
Mg: 8
Ng: 5
==========================================
==========================================
```


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

ECE_BETA=30

Program name: ['epsilon' 'help_epsilon']

main_separator: 1234
tunefit: 0
subgenetic: 40
rand_genetic: 525
rand_frame: 200
rand_points = rand_frame: 400

Nm: 20
Ns: 10
mem: 10
mem: 10
Mg: 8
Ng: 5
==========================================
==========================================
```



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

ECE_BETA=40

Program name: ['epsilon' 'help_epsilon']

main_separator: 1234
tunefit: 0
subgenetic: 40
rand_genetic: 525
rand_frame: 200
rand_points = rand_frame: 400

Nm: 20
Ns: 10
mem: 10
mem: 10
Mg: 8
Ng: 5
==========================================
==========================================
```



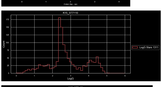
```
==========================================
==========================================

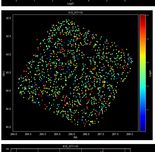
ECE_BETA=50

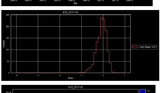
Program name: ['epsilon' 'help_epsilon']

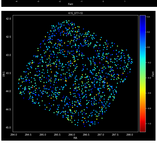
main_separator: 1234
tunefit: 0
subgenetic: 40
rand_genetic: 525
rand_frame: 200
rand_points = rand_frame: 400

Nm: 20
Ns: 10
mem: 10
mem: 10
Mg: 8
Ng: 5
==========================================
==========================================
```









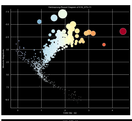

```
==========================================
==========================================

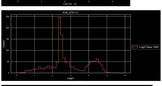
SCR_BTH10:

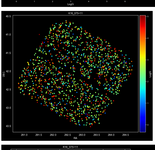
Programmer: ['sanger', 'hep_spetner']

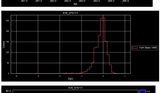
main_separator: 147
subgroup: 0
subgroupnum: 0
num_events: 1000
total_events: 1000
total_events + num_clumps: 7844

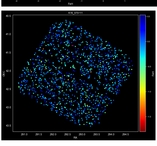
Nc: 11
Nb: 1000
Nbb: 1000
Nbc: 1000
Nbj: 1000
Nc: 10
==========================================
==========================================
```











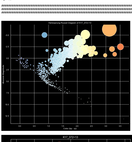

```
==========================================
==========================================

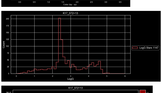
SCT_BTH10:

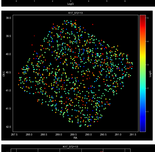
Programmer: ['sanger', 'hep_spetner']

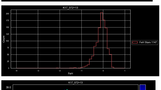
main_separator: 1218
subgroup: 0
subgroupnum: 0
num_events: 1000
total_events: 1000
total_events + num_clumps: 5391

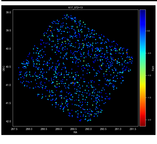
Nc: 12
Nb: 1000
Nbb: 1000
Nbc: 1000
Nbj: 1000
Nc: 11
==========================================
==========================================
```












```
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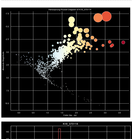
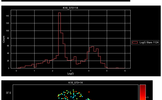
SCR_BTH10:

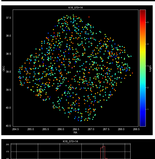
Programmer: ['sanger', 'hep_spetner']

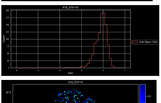
main_separator: 1000
subgroup: 0
subgroupnum: 0
num_events: 1000
total_events: 1000
total_events + num_clumps: 5230

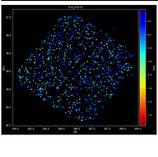
Nc: 12
Nb: 1000
Nbb: 1000
Nbc: 1000
Nbj: 1000
Nc: 11
==========================================
==========================================
```









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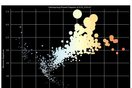
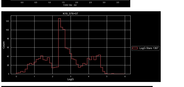
SCR_BTH1407

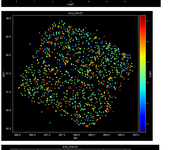
Programmer: ['sanger', 'hep_spetner']

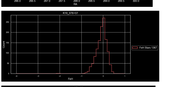
main_separator: 500
subgroup: 0
subgroupnum: 0
num_events: 1000
total_events: 1000
total_events + num_clumps: 4553

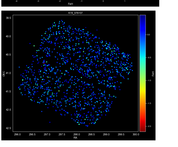
Nc: 11
Nb: 1000
Nbb: 1000
Nbc: 1000
Nbj: 1000
Nc: 11
==========================================
==========================================
```









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================================================================
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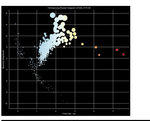
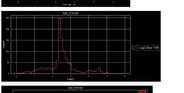
ACR_BETA08

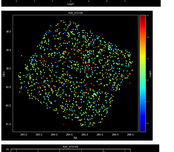
Programmer: ['sanger', 'hep_aperture']

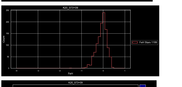
main_sequence: 75
hotspot: 100
temperature: 32
rad_gamma: 0.0000
rad_alpha: 0.0000
rad_gamma + rad_alpha: 730

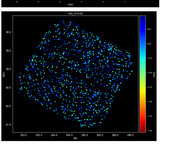
Mn: 20
Mx: 21
Dky: 0
Dky: 364
Mn: 22
Mx: 23
================================================================
================================================================
```











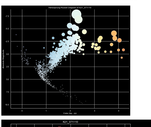

```
================================================================
================================================================

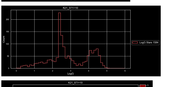
ACR_BETA09

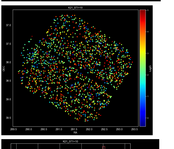
Programmer: ['sanger', 'hep_aperture', 'hep_bin']

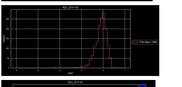
main_sequence: 100
hotspot: 140
temperature: 32
rad_gamma: 0000
rad_alpha: 0000
rad_gamma + rad_alpha: 570

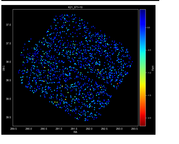
Mn: 20
Mx: 21
Dky: 179
Dky: 364
Mn: 22
Mx: 23
================================================================
================================================================
```












```
================================================================
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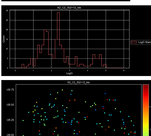
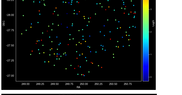
ACI_CS_DS+CI_Bin

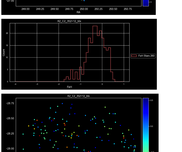
Programmer: ['sd_bin']

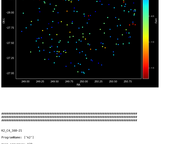
main_sequence: 20
hotspot: 0
temperature: 0
rad_gamma: 0
rad_alpha: 0
rad_gamma + rad_alpha: 331

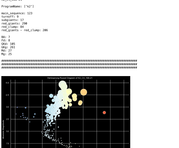
Mn: 0
Dky: 0
Dky: 27
Mn: 1
Mx: 31
================================================================
================================================================
```











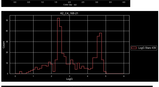

```
================================================================
================================================================

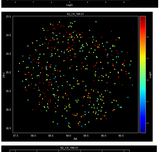
ACI_CS_DSR-CI

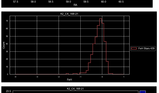
Programmer: ['ic']

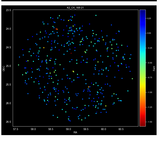
main_sequence: 123
hotspot: 0
temperature: 0
rad_gamma: 298
rad_alpha: 0
rad_gamma + rad_alpha: 298

Mn: 0
Dky: 0
Dky: 28
Mn: 1
Mx: 31
================================================================
================================================================
```







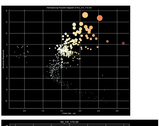


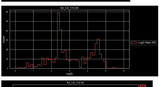
G2_CA_E15-20

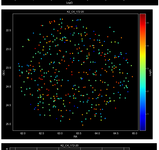
Programmer: I'LT'J

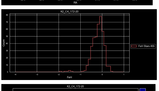
mem_separator: 114
burst=1: 71
subgroup=: 20
mem_size: 40
rel_prob= -0.0
rel_prob= - rel_clump: 200

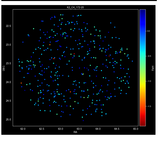
Ev: 10
Ch: 20
Wav: 20
Max: 20
Mx: 20
Mn: 20









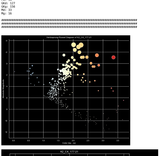


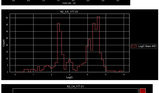
G2_CA_E15-21

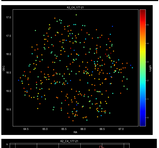
Programmer: I'LT'J

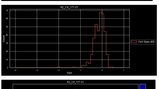
mem_separator: 100
burst=1: 71
subgroup=: 21
mem_size: 40
rel_prob= -0.0
rel_prob= - rel_clump: 135

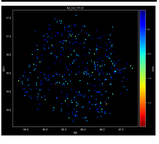
Ev: 1
Ch: 21
Wav: 21
Max: 21
Mx: 21
Mn: 21









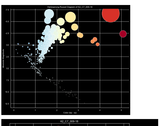


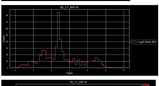
G2C2_B09-10

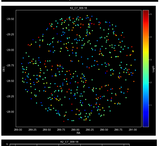
Programmer: I'LT'J

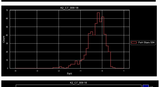
mem_separator: 90
burst=1: 71
subgroup=: 10
mem_size: 40
rel_prob= -0.0
rel_prob= - rel_clump: 300

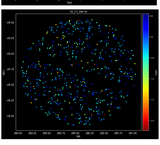
Ev: 0
Ch: 10
Wav: 10
Max: 10
Mx: 10
Mn: 10









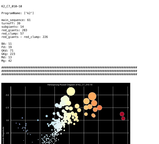


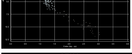
G2_C2_B08-08

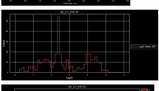
Programmer: I'LT'J

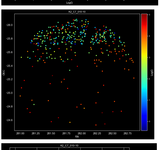
mem_separator: 80
burst=1: 71
subgroup=: 8
mem_size: 40
rel_prob= -0.0
rel_prob= - rel_clump: 336

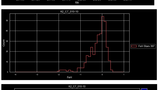
Ev: 0
Ch: 8
Wav: 8
Max: 8
Mx: 8
Mn: 8

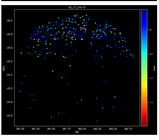










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LAMBDAHD1-A

Programnamen: ['cor']

main_exposure: 145
hurlpoint: 30
subpoints: 30
rms_points: 365
rms_points: 365
rms_points - rms_clean: 350

Dec: 30
Ra: 0
Date: 30
Mag: 12
Mag: 14
Mag: 16
==================================================
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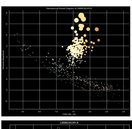

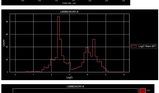

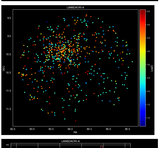

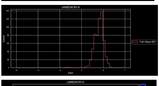

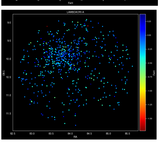

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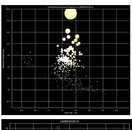
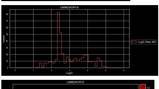
LAMBDAHD1-B

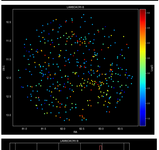
Programnamen: ['cor']

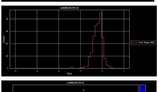
main_exposure: 30
hurlpoint: 30
subpoints: 30
rms_points: 365
rms_points - rms_clean: 335

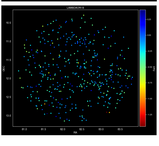
Dec: 30
Ra: 0
Date: 30
Mag: 12
Mag: 14
Mag: 16
==================================================
==================================================
```











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LAMBDAHD1-C

Programnamen: ['cor']

main_exposure: 30
hurlpoint: 30
subpoints: 30
rms_points: 365
rms_points - rms_clean: 334

Dec: 30
Ra: 0
Date: 30
Mag: 12
Mag: 14
Mag: 16
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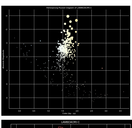
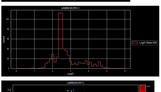
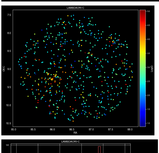
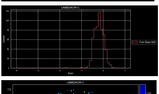
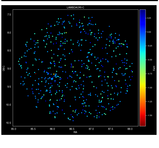
==================================================
```











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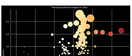
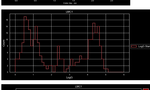
LAMBDA

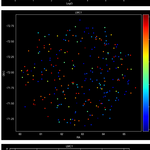
Programnamen: ['mag/cor']

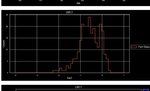
main_exposure: 30
hurlpoint: 30
subpoints: 30
rms_points: 365
rms_points - rms_clean: 147

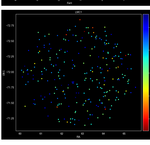
Dec: 30
Ra: 0
Date: 30
Mag: 12
Mag: 14
Mag: 16
==================================================
==================================================
```

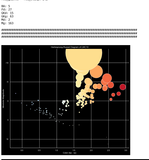


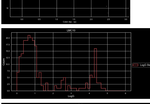


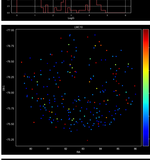










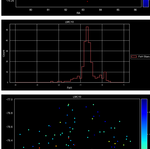


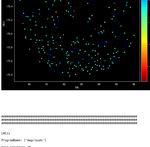
```
LM 28

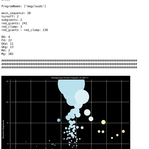
Programmer: ['map/tools']

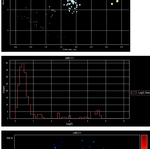
main_sequence: 26
subgroup: 0
subgroup: 0
red_giants: 0
red_giants: 0
red_giants: 0 red_clump: 242

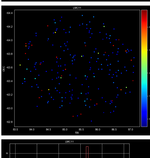
Mv: 0
Mv: 0
Mag: 21
Mag: 0
Mv: 0
Mv: 0
```









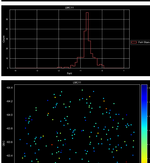


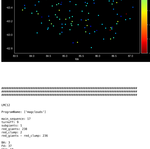
```
LM 13

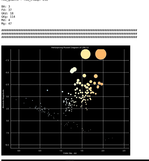
Programmer: ['map/tools']

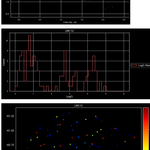
main_sequence: 28
subgroup: 0
subgroup: 0
red_giants: 0
red_giants: 0
red_giants: 0 red_clump: 230

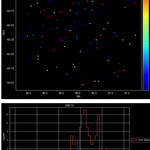
Mv: 0
Mv: 0
Mag: 21
Mag: 0
Mv: 0
Mv: 0
```









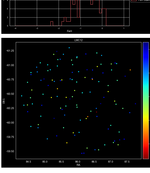


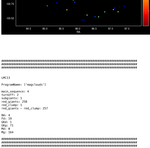
```
LM 12

Programmer: ['map/tools']

main_sequence: 17
subgroup: 0
subgroup: 0
red_giants: 230
red_giants: 0
red_giants: 0 red_clump: 236

Mv: 0
Mv: 0
Mag: 18
Mag: 0
Mv: 0
Mv: 0
```



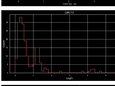


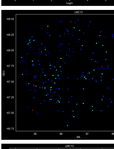

```
LM 11

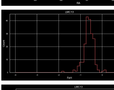
Programmer: ['map/tools']

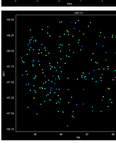
main_sequence: 0
subgroup: 0
subgroup: 0
red_giants: 0
red_giants: 0
red_giants: 0 red_clump: 257

Mv: 0
Mv: 0
Mag: 0
Mag: 0
Mv: 0
Mv: 0
```





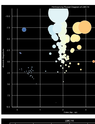


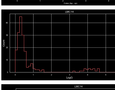


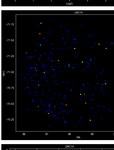
LPC10

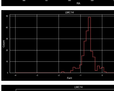
Programfamme: ['map/tools']

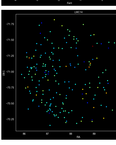
```
main_separator: 10
hotspot: 0.5
hotspotsize: 0
rad_gamma: 0.0
rad_gamma: 0.0
rad_gamma = rad_clump: 244
Ne: 0
Nh: 0
NPhy: 0
NPsy: 0
Nc: 0
Nu: 400
```







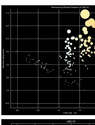


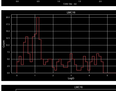


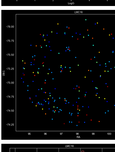
LPC20

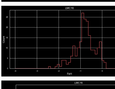
Programfamme: ['map/tools']

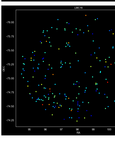
```
main_separator: 10
hotspot: 0.5
hotspotsize: 0
rad_gamma: 0.0
rad_gamma: 0.0
rad_gamma = rad_clump: 238
Ne: 0
Nh: 0
NPhy: 0
NPsy: 29
Nc: 0
Nu: 0
```







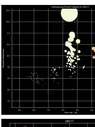


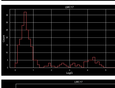


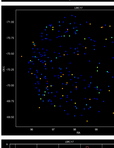
LPC12

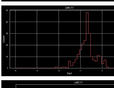
Programfamme: ['map/tools']

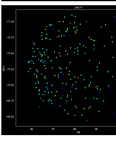
```
main_separator: 15
hotspot: 0.5
hotspotsize: 0
rad_gamma: 0.0
rad_gamma: 0.0
rad_gamma = rad_clump: 240
Ne: 0
Nh: 0
NPhy: 0
NPsy: 0
Nc: 0
Nu: 400
```







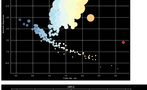


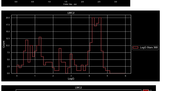


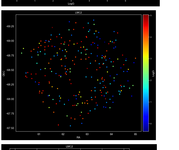
LPC2

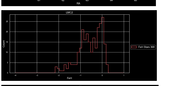
Programfamme: ['map/tools']

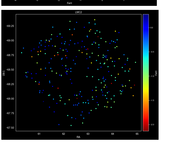
```
main_separator: 50
hotspot: 0.5
hotspotsize: 0
rad_gamma: 0.0
rad_gamma: 0.0
rad_gamma = rad_clump: 243
Ne: 0
Nh: 0
NPhy: 0
NPsy: 29
Nc: 0
Nu: 0
```











```
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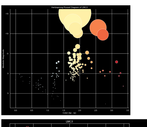
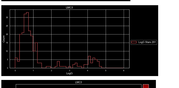
LN3

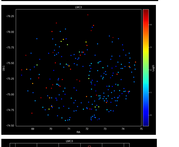
Dropcadence: ['map/leafs']

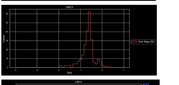
main_sequence: 20
hydro0: 0
subgiants: 0
red_giants: 0
red_clump: 0
red_giants + red_clump: 255

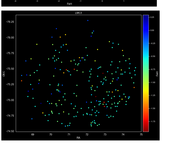
Mr: 0
Mgr: 0
Mbr: 0
Mrg: 0
Mrb: 0
Mgb: 0
==================================================
==================================================
```











```
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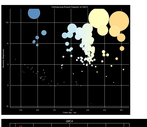
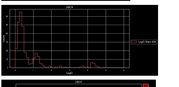
LN4

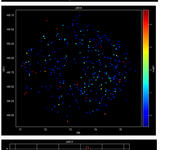
Dropcadence: ['map/leafs']

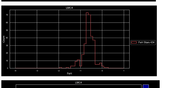
main_sequence: 21
hydro0: 0
subgiants: 0
red_giants: 0
red_clump: 0
red_giants + red_clump: 413

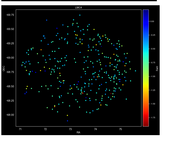
Mr: 0
Mgr: 0
Mbr: 0
Mrg: 0
Mrb: 0
Mgb: 0
==================================================
==================================================
```











```
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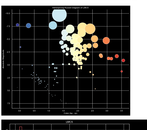
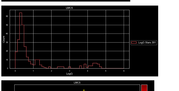
LN5

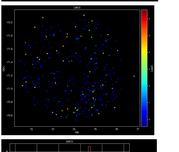
Dropcadence: ['map/leafs']

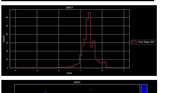
main_sequence: 20
hydro0: 0
subgiants: 0
red_giants: 0
red_clump: 0
red_giants + red_clump: 354

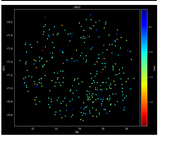
Mr: 0
Mgr: 0
Mbr: 0
Mrg: 0
Mrb: 0
Mgb: 0
==================================================
==================================================
```











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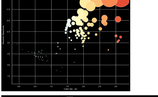
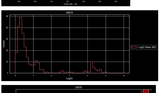
LN6

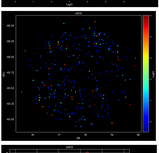
Dropcadence: ['map/leafs']

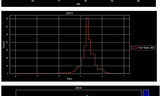
main_sequence: 20
hydro0: 0
subgiants: 0
red_giants: 0
red_clump: 0
red_giants + red_clump: 333

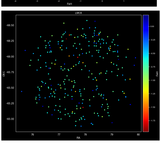
Mr: 0
Mgr: 0
Mbr: 0
Mrg: 0
Mrb: 0
Mgb: 0
==================================================
==================================================
```









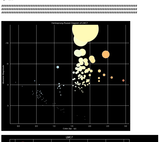


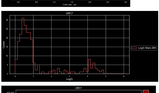
```
UN2

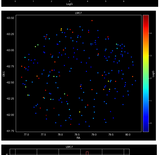
Programmes: ['map/zoom']

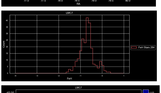
main_sequence: 35
turnoff: 48
subgiants: 0
red_giants: 212
clump: 0
red_giants + red_clump: 240

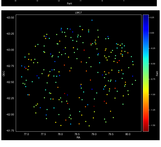
Bin: 2
Age: 10
Dist: 8
Mag: 20
Mr: 0.6
Mg: 0.6
```









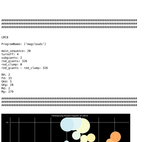


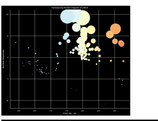
```
UN3

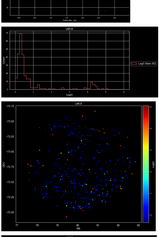
Programmes: ['map/zoom']

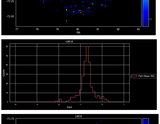
main_sequence: 0
turnoff: 0
subgiants: 0
red_giants: 216
clump: 0
red_giants + red_clump: 216

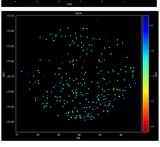
Bin: 2
Age: 10
Dist: 8
Mag: 20
Mr: 0.6
Mg: 0.6
```









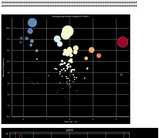


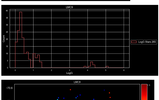
```
UN4

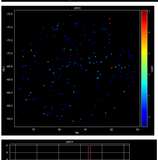
Programmes: ['map/zoom']

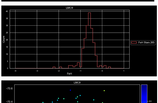
main_sequence: 0
turnoff: 0
subgiants: 0
red_giants: 256
clump: 0
red_giants + red_clump: 256

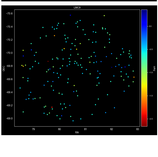
Bin: 2
Age: 10
Dist: 8
Mag: 20
Mr: 0.6
Mg: 0.6
```









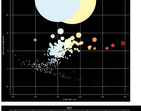


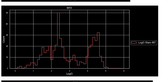
```
M30

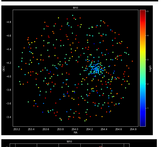
Programmes: ['cluster_gc2']

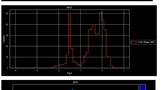
main_sequence: 137
turnoff: 48
subgiants: 0
red_giants: 103
clump: 0
red_giants + red_clump: 140

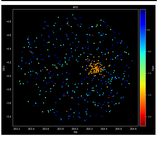
Bin: 0
Age: 10
Dist: 20
Mag: 20
Mr: 0.6
Mg: 0.6
```











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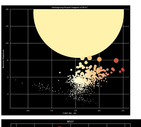
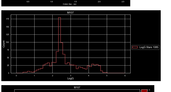
M140

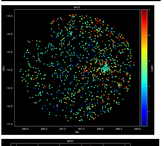
Programnamen: ['apogee', 'marvels']

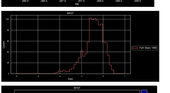
main_separator: 180
tangent: 0
sub_points: 32
sub_points: 256
rot_limit: 180
rot_points: 4_rot_limit: 450

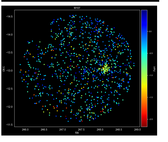
Nr: 1
Nr: 2
Nr: 23
Nr: 24
Nr: 4
Nr: 5
==================================================
==================================================
```











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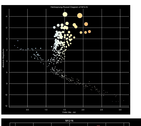
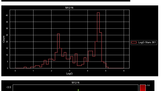
M13-B

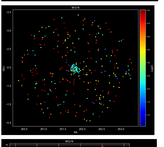
Programnamen: ['cluster_gc']

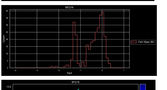
main_separator: 120
tangent: 0
sub_points: 32
rot_points: 256
rot_points: 4_rot_limit: 170

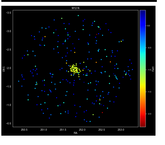
Nr: 1
Nr: 2
Nr: 23
Nr: 24
Nr: 4
Nr: 5
==================================================
==================================================
```











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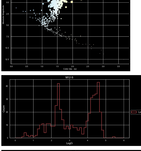
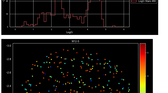
M13-S

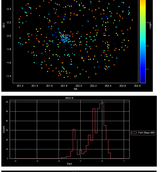
Programnamen: ['cluster_gc']

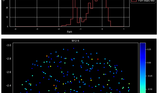
main_separator: 120
tangent: 0
sub_points: 32
rot_points: 256
rot_points: 4_rot_limit: 230

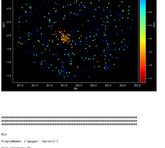
Nr: 1
Nr: 2
Nr: 23
Nr: 24
Nr: 4
Nr: 5
==================================================
==================================================
```











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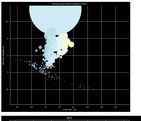
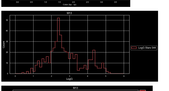
M15

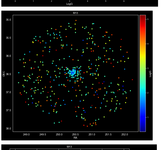
Programnamen: ['apogee', 'marvels']

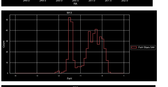
main_separator: 90
tangent: 0
sub_points: 32
sub_points: 256
rot_points: 4
rot_points: 4_rot_limit: 375

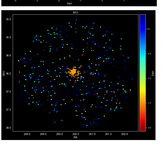
Nr: 1
Nr: 2
Nr: 23
Nr: 24
Nr: 25
Nr: 4
Nr: 5
==================================================
==================================================
```











```
================================================================
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R5

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

main_sequence: 981
turboff: 97
giants: 1147
red_clump: 187
red_giants: 1334
red_giants + red_clump: 4798

Bin: 0
Dec: 0
Jdrp: 0
Jdap: 0
Mjd: 0
Mv: 0

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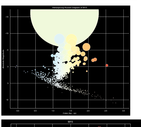
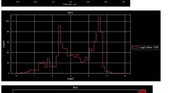
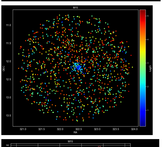
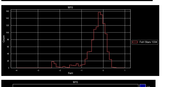
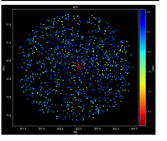
================================================================
```











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R6

Programmes: ['apogee']

main_sequence: 34
turboff: 0
giants: 1147
red_clump: 148
red_giants: 1334
red_giants + red_clump: 121

Bin: 0
Dec: 0
Jdrp: 0
Jdap: 0
Mjd: 0
Mv: 0

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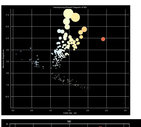
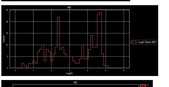
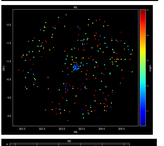
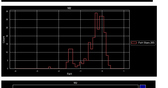
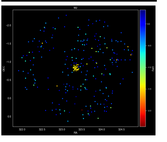










```
================================================================
================================================================

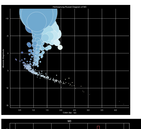
R7

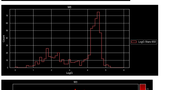
Programmes: ['apogee', 'apogee-marvels']

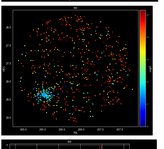
main_sequence: 982
turboff: 97
giants: 1147
red_clump: 38
red_giants: 1185
red_giants + red_clump: 236

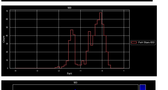
Bin: 0
Dec: 0
Jdrp: 0
Jdap: 0
Mjd: 0
Mv: 0

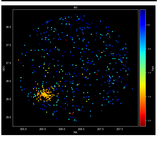
================================================================
================================================================
```











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

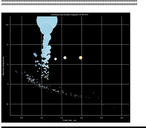
R8-R9

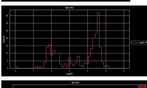
Programmes: ['rv']

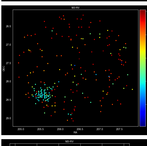
main_sequence: 113
turboff: 0
giants: 1147
red_giants: 148
red_clump: 0
red_giants + red_clump: 121

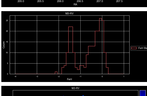
Bin: 0
Dec: 0
Jdrp: 0
Jdap: 0
Mjd: 0
Mv: 0

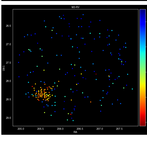
================================================================
================================================================
```









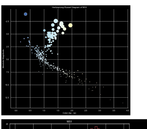


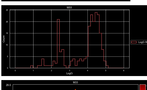
M20

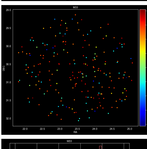
Dropsamples: ['iso']

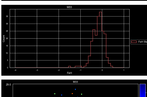
mass_separation: 100
bandwidth: 0.5
subsample: 0
min_cluster: 10
real_points = real_clump: 195

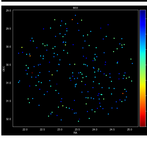
Dec: 0
Ver: 0.5
Mass: 100
Mag: 10
Mag: 0.5
Mag: 0.5









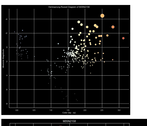


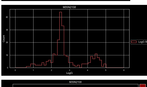
M20NOISE

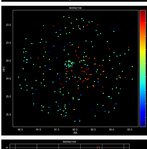
Dropsamples: ['opaque']

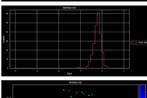
mass_separation: 10
bandwidth: 0.5
subsample: 0
min_cluster: 10
real_points = real_clump: 230

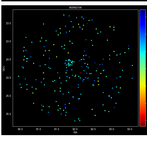
Dec: 0
Ver: 0.5
Mass: 10
Mag: 10
Mag: 0.5
Mag: 0.5









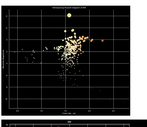


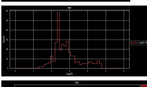
M6

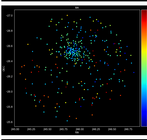
Dropsamples: ['cluster_pyl']

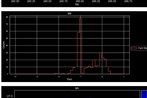
mass_separation: 10
bandwidth: 1.5
subsample: 0
min_cluster: 100
real_points = real_clump: 152

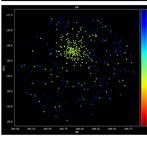
Dec: 0
Ver: 0.5
Mass: 10
Mag: 10
Mag: 0











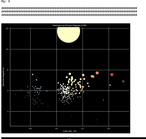
M5

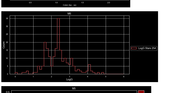
Dropsamples: ['virgo']

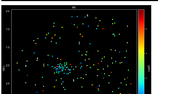
mass_separation: 5
bandwidth: 1.5
subsample: 0
min_cluster: 10
real_points = real_clump: 282

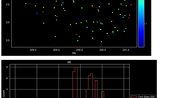
Dec: 0
Ver: 0.5
Mass: 10
Mag: 10

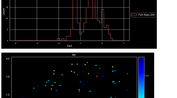
No. 5









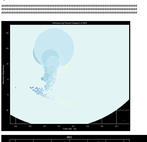


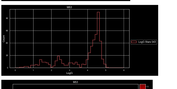
ALL

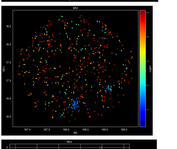
Programmes: ['apogee' 'apogee-marvels']

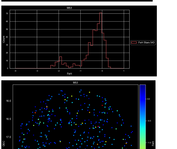
mors_separator: 200
surplus: 0
subgalaxy: 11
subgalaxy: 24
red_galaxy: 200
red_galaxy: 0
red_clump: - red_clump: 177

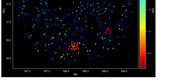
Nr: 6
Nr: 7
Nr: 10
Nr: 14
Nr: 15
Nr: 17
Nr: 18









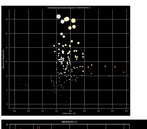


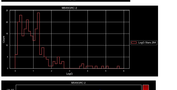
MARVELS-2

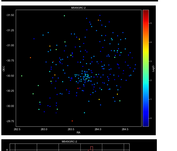
Programmes: ['rv']

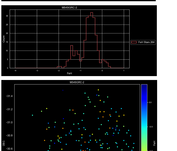
mors_separator: 0
surplus: 0
subgalaxy: 0
subgalaxy: 24
red_galaxy: 0
red_galaxy: - red_clump: 247

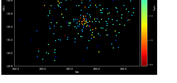
Nr: 3
Nr: 4
Nr: 6
Nr: 7
Nr: 9
Nr: 10
Nr: 14









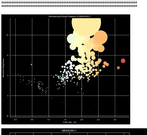


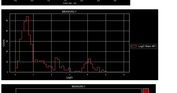
MYSTARS-1

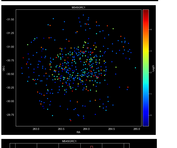
Programmes: ['apogee']

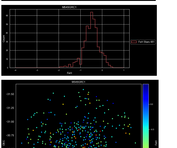
mors_separator: 17
surplus: 0
subgalaxy: 11
subgalaxy: 24
red_galaxy: 0
red_galaxy: - red_clump: 411

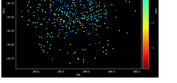
Nr: 6
Nr: 7
Nr: 10
Nr: 14
Nr: 15
Nr: 18









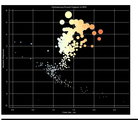


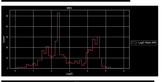
ALL

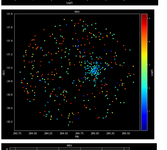
Programmes: ['clusters_gc2']

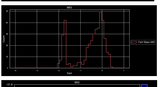
mors_separator: 200
surplus: 0
subgalaxy: 0
red_galaxy: 200
red_galaxy: 0
red_clump: - red_clump: 177

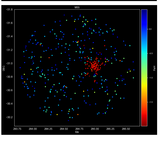
DEC: 180
RA: 180
Mag: 8
Mp: 0









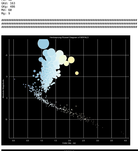


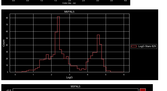
PERSEUS

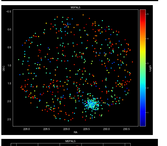
Programmer: ['sapper' 'cluster_gr']

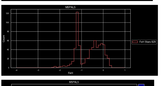
main_separator: 2001
separator: 0
subgalactic: 0
subgalactic_dir: 0
cmd_galactic: 90
cmd_galactic: [cmd_filter: 40]

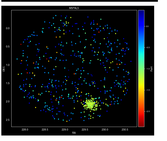
Dec: 0
RA: 0
Mag: 10
Dec: 90
Mp: 90
Mp: 0









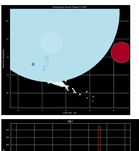


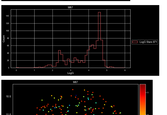
MAC

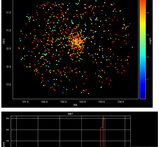
Programmer: ['sapper' 'cluster_gr']

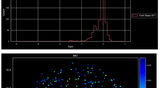
main_separator: 127
separator: 0
subgalactic: 0
subgalactic_dir: 0
cmd_galactic: 90
cmd_galactic: [cmd_filter: 29]

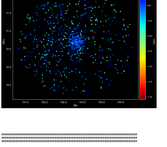
Dec: 0
RA: 180
Mag: 10
Dec: 180
Mp: 0
Mp: 0









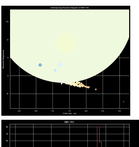


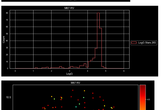
MAC-AM

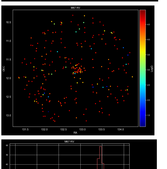
Programmer: ['sac']

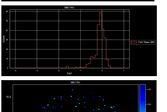
main_separator: 102
separator: 0
subgalactic: 0
cmd_galactic: 0
cmd_galactic: [cmd_filter: 17]

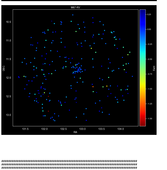
Dec: 0
RA: 0
Mag: 10
Dec: 0
Mp: 0
Mp: 0









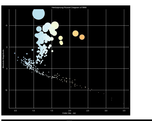


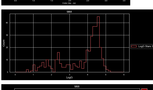
MAG

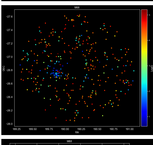
Programmer: ['cluster_gr']

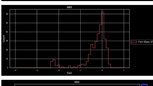
main_separator: 170
separator: 0
subgalactic: 0
subgalactic_dir: 0
cmd_galactic: 10
cmd_galactic: [cmd_filter: 12]

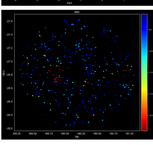
Dec: 0
Inc: 0
dec: 0.04
inc: 0.02
Mag: 1.0
Mag: 0









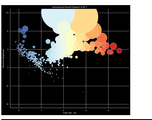


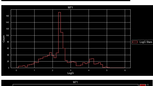
ATG

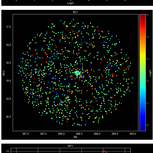
Programmer: ['sampar', 'cluster_gz']

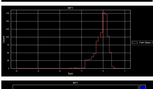
main_separator: 27
sumsqrtr: 51
sumsqrtrnorm: 0
rmd_points: 2848
rmd_clump: 0
rmd_points - rmd_clump: 2848

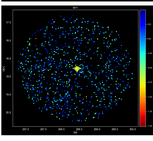
Dec: 0
Inc: 0
dec: 0.04
inc: 0.02
Mag: 1.0
Mag: 0









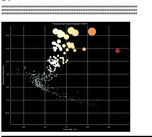


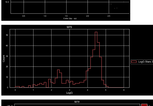
ATG

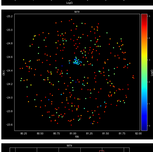
Programmer: ['cluster_gz']

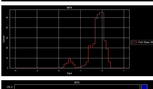
main_separator: 185
sumsqrtr: 0
sumsqrtrnorm: 0
rmd_points: 2848
rmd_clump: 2848
rmd_points - rmd_clump: 585

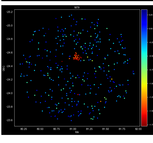
Dec: 0
Inc: 0
dec: 0.04
inc: 0.02
Mag: 1.0
Mag: 0









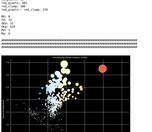


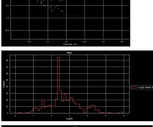
MSG

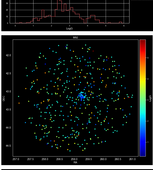
Programmer: ['sampar']

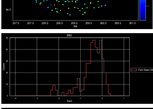
main_separator: 10
sumsqrtr: 0
sumsqrtrnorm: 0
rmd_points: 2848
rmd_clump: 585
rmd_points - rmd_clump: 576

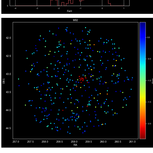
Dec: 0
Inc: 0
dec: 0.04
inc: 0.02
Mag: 1.0
Mag: 0









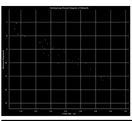


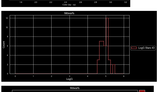
Results:

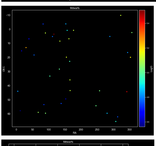
Programmer: ['sampar', 'sampar', 'sampar', '

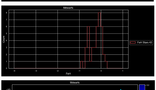
```
hsnpdf=1 0
hsnpdf=2 0
nmf_points= 0
nmf_clamp= 0
rnd_points = rnd_clamp= 3

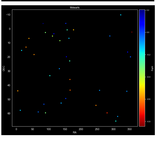
Dim: 6
Vol: 1
Shift: 0
Mag: 0
Max: 0
Min: 0
```









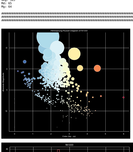


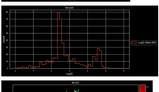

```
NCI53

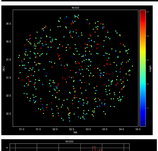
Prog:mdbsmc [-tpnspm-]

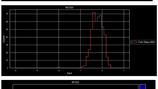
main_sequence= 50
nmf_points= 0
subspace= 12
rnd_points= 200
rnd_clamp= 100
nmf_clamp= 100 nmf_clamp= 405

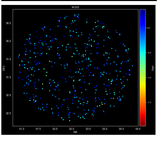
Dim: 6
Vol: 1
Shift: 0
Mag: 0
Max: 0
Min: 0
```









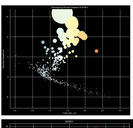


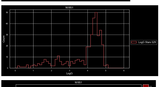

```
NCI61

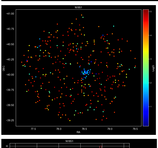
Prog:mdbsmc [-tlsnlsnr_gp -l "clsnlsnr_gp1"]

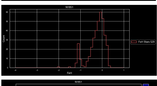
main_sequence= 200
nmf_points= 0
subspace= 10
rnd_points= 20
rnd_clamp= 0
nmf_points= nmf_clamp= 240

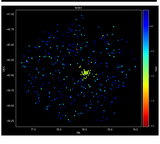
Dim: 6
Vol: 1
Shift: 0
Mag: 0
Max: 0
Min: 0
```









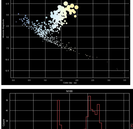


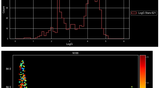

```
NCI98

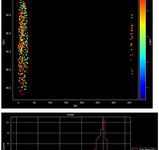
Prog:mdbsmc [-tpnspm- "clsnlsnr_pc"]

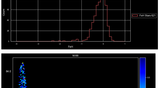
main_sequence= 100
nmf_points= 0
subspace= 20
rnd_points= 200
rnd_clamp= 0
nmf_points= nmf_clamp= 257

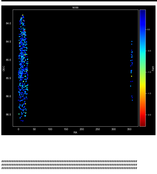
Dim: 6
Vol: 1
Shift: 0
Mag: 0
Max: 0
Min: 0
```









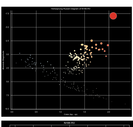


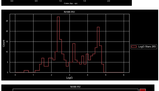

```
NCI60
```

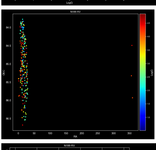
Programname: [-tubeCelfar']

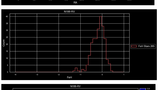
mass_separator: 50
kernelfrac: 0.5
subpoints: 10
mass_cutoff: 0.1
rmfilamp: 30
rmfilpoints = rmfilamp: 129

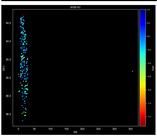
Dec: 0
Ra: 0
Vlos: 0
Wdec: 100
Wra: 0
Wvlos: 0







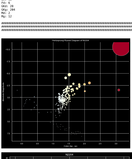


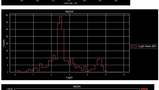


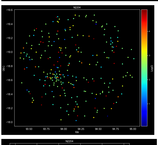
Programname: [-tCluster_ra']

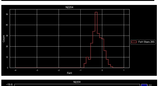
mass_separator: 20
kernelfrac: 1
subpoints: 10
mass_cutoff: 0.01
rmfilamp: 30
rmfilpoints = rmfilamp: 107

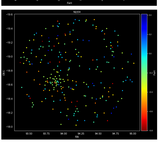
Dec: 20
Ra: 20
Vlos: 20
Wdec: 100
Wra: 0
Wvlos: 0







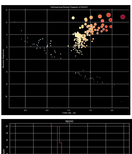


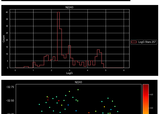


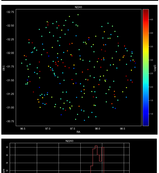
Programname: [-sepspw']

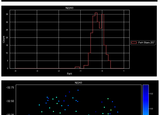
mass_separator: 40
kernelfrac: 1
subpoints: 10
mass_cutoff: 0.1
rmfilamp: 30
rmfilpoints = rmfilamp: 141

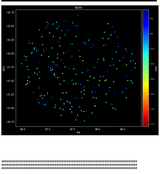
Dec: 0
Ra: 0
Vlos: 20
Wdec: 100
Wra: 0
Wvlos: 0







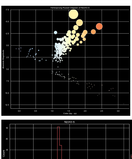


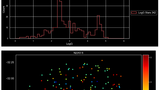


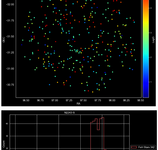
Programname: [-tCluster_ra']

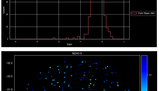
mass_separator: 50
kernelfrac: 1
subpoints: 10
mass_cutoff: 0.1
rmfilamp: 30
rmfilpoints = rmfilamp: 102

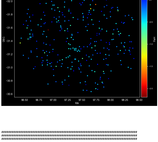
Dec: 0
Ra: 0
Vlos: 0
Wdec: 100
Wra: 0
Wvlos: 0









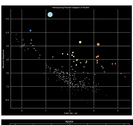


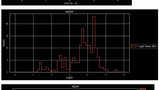
N2264

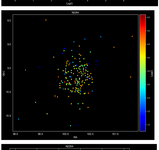
Programname: ['cart']

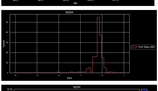
main_separation: 51
halofit: 0
subgrain: 51
red_grains: 218
red_cut: 0.5
red_grains + red_clump: 139

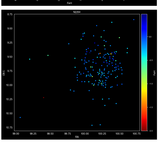
Dec: 10
Ra: 100.5
dpc: 10
dmag: 0.5
Mag: 17
Mag: 20
Mu: 0









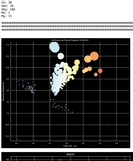


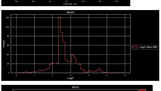
N2420

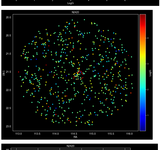
Programname: ['cart']

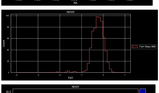
main_separation: 25
halofit: 0
subgrain: 51
red_grains: 218
red_cut: 0.5
red_grains + red_clump: 431

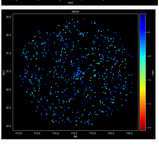
Dec: 0
Ra: 100
dpc: 10
dmag: 0.5
Mag: 20
Mu: 0









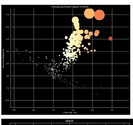


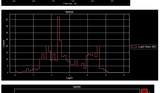
N2682

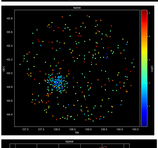
Programname: ['cluster_gal']

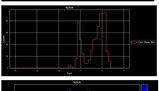
main_separation: 25
halofit: 0
subgrain: 51
red_grains: 218
red_cut: 0.5
red_grains + red_clump: 252

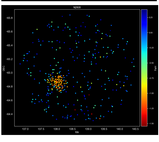
Dec: 0
Ra: 0
dpc: 10
dmag: 0.5
Mag: 20
Mu: 0









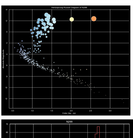


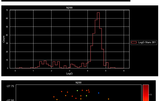
N200

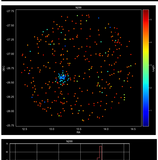
Programname: ['cluster_gc']

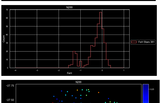
main_separation: 273
halofit: 0
subgrain: 51
red_grains: 0
red_cut: 0.5
red_grains + red_clump: 72

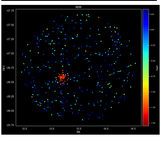
Dec: 0
Ra: 0
dpc: 200
dmag: 0.5
Mag: 20
Mu: 0











****

NCGS1

Programkomo: ['/cluster_gal']

main_sequence: 42
turnoff: 0
subgiants: 0
red_giants: 0
red_clump: 76
red_giants + red_clump: 245

Nbr: 42
Nbs: 0
Nbg: 0
Nbc: 76
Nrg: 0
Nrc: 0

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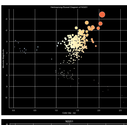
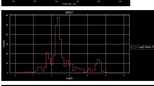
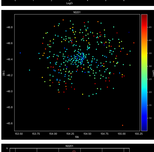
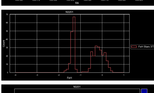
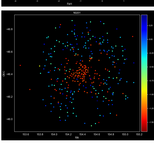










****

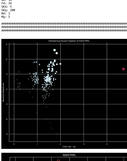
NCGS2NG

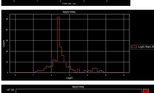
Programkomo: ['/cr/gc']

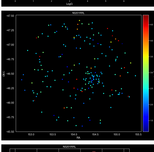
main_sequence: 12
turnoff: 0
subgiants: 0
red_giants: 247
red_clump: 0
red_giants + red_clump: 170

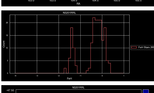
Nbc: 0
Nbs: 0
Nbg: 0
Nbc: 12
Nrg: 0
Nrc: 0

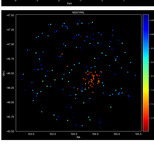
****











****

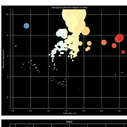
NCGS3

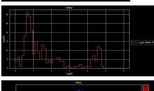
Programkomo: ['/cr/gc']

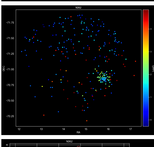
main_sequence: 36
turnoff: 0
subgiants: 0
red_giants: 0
red_clump: 0
red_giants + red_clump: 263

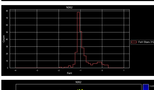
Nbc: 0
Nbs: 0
Nbg: 0
Nbc: 36
Nrg: 0
Nrc: 0

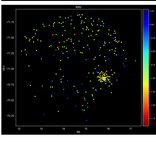
****











****

NGS2

Programkomo: ['/cluster_gc']

main_sequence: 96
turnoff: 0
subgiants: 0
red_giants: 0
red_clump: 0
red_giants + red_clump: 263

Nbc: 0
Nbs: 0
Nbg: 0
Nbc: 96
Nrg: 0
Nrc: 0

****

****

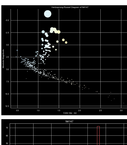
NGS2

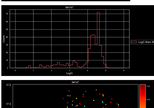
Programkomo: ['/nerstr']

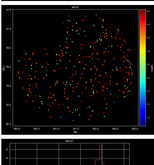
main_sequence: 25
turnoff: 0
subgiants: 0
red_giants: 0
red_clump: 0
red_giants + red_clump: 77

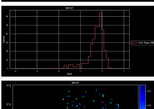
Nbc: 0
Nbs: 0
Nbg: 0
Nbc: 25
Nrg: 0
Nrc: 0

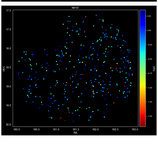
****











****

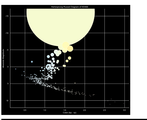
B2000

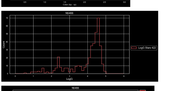
Programme: ['opaque-morafy']

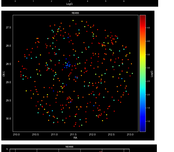
main_separator: 100
hurdle: 0.5
subplots: 10
num_points: 10
rad_clump: 0.5
num_points = num_clump: 340

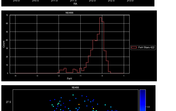
Nx: 8
Ny: 8
Nbin: 512
Mx: 10
My: 10
Mp: 10

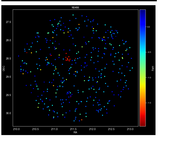
****











****

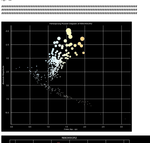
NOCOSOU

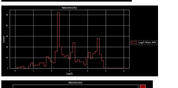
Programme: ['opaque']

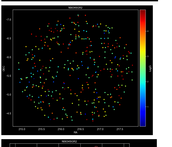
main_separator: 60
hurdle: 0.5
subplots: 10
num_points: 10
rad_clump: 50
num_points = num_clump: 215

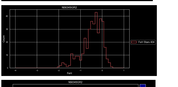
Nx: 8
Ny: 8
Nbin: 512
Mx: 10
My: 10
Mp: 10

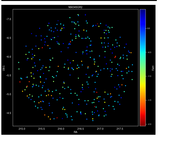
****











****

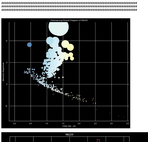
NGC55

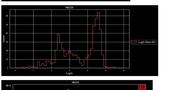
Programme: ['opaque']

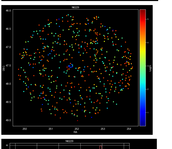
main_separator: 251
hurdle: 0.5
subplots: 10
num_points: 10
rad_clump: 0.5
num_points = num_clump: 301

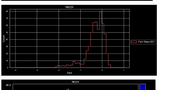
Nx: 8
Ny: 8
Nbin: 512
Mx: 10
My: 10
Mp: 10

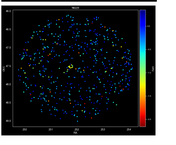
****











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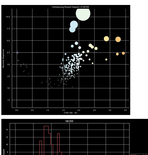
NGC88

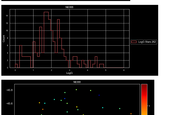
Programme: ['cluster_gcf']

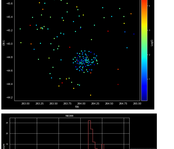
main_separator: 0
hurdle: 0.5
subplots: 0
num_points: 0
rad_clump: 0.5
num_points = num_clump: 196

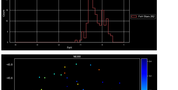
Nx: 8
Ny: 8
Nbin: 512
Mx: 10
My: 10
Mp: 10

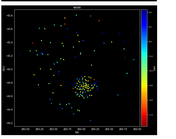
****











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NGC457

Programmes: ['clusters_gc1']

main_separation: 70
bunsplit: 0
subpoints: 10
red_points: 300
red_points + red_flump: 341

RA: 21
Dec: 58
Mag: 6.4
Mag: 147
Mag: 6
Mag: 6

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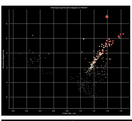

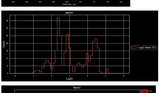

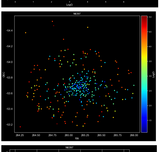

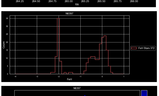

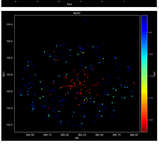

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NGC663

Programmes: ['clusters_gc1']

main_separation: 0
bunsplit: 0
subpoints: 10
red_points: 300
red_points + red_flump: 331

RA: 23
Dec: 61
Mag: 7
Mag: 6.9
Mag: 6
Mag: 6

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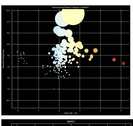

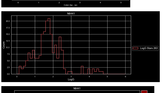

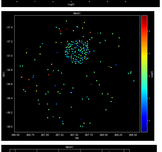

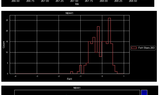

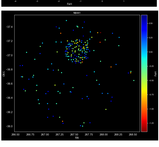

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NGC752

Programmes: ['clusters_gc1']

main_separation: 50
bunsplit: 0
subpoints: 0
red_points: 300
red_points + red_flump: 300

RA: 0
Dec: 38
Mag: 8
Mag: 29
Mag: 6
Mag: 6

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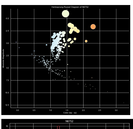

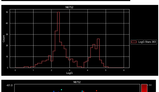

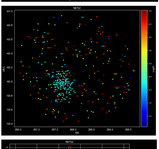

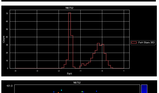

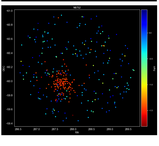

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NGC52

Programmes: ['opcpm']

main_separation: 25
bunsplit: 0
subpoints: 0
red_points: 300
red_points + red_flump: 324

RA: 22
Dec: 22
Mag: 8
Mag: 29
Mag: 6
Mag: 6

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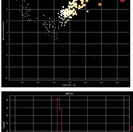

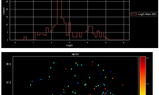

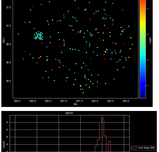

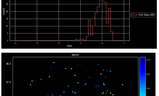

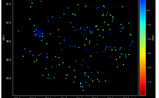

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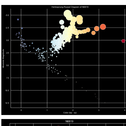
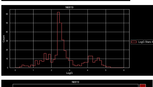
NGC13

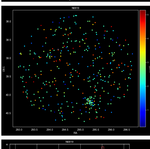
Programmer: [ apogee ]

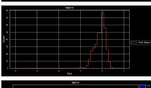
main_separator: 0
halo(FF): 20
subgalactic: 20
red_giants: 100
red_clump: 30
red_giants + red_clump: 244

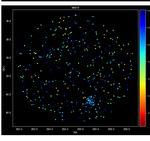
Dec: 20
Ra: 40
Dmin: 0
Dmax: 90
Mv: 8
Mag: 10
==========================================
```









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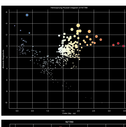
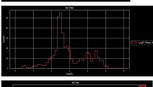
NGC766

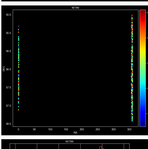
Programmer: [ apogee ]

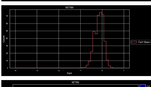
main_separator: 0
halo(FF): 20
subgalactic: 20
red_giants: 100
red_clump: 30
red_giants + red_clump: 214

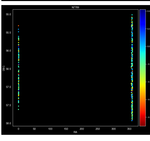
Dec: 40
Ra: 40
Dmin: 0
Dmax: 90
Mv: 8
Mag: 10
==========================================
```









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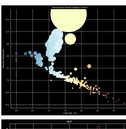
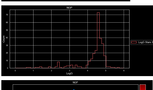
NGC

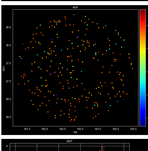
Programmer: [ apogee ]

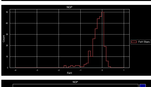
main_separator: 150
halo(FF): 20
subgalactic: 20
red_giants: 60
red_clump: 30
red_giants + red_clump: 42

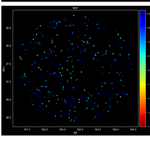
Dec: 0
Ra: 0
Dmin: 150
Dmax: 0
Mv: 0
Mag: 0
==========================================
```









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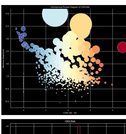
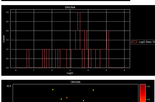
OPCDAA

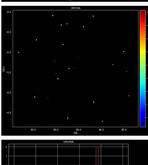
Programmer: [ apogee ]

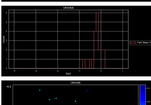
main_separator: 0
halo(FF): 20
subgalactic: 20
red_giants: 1000
red_clump: 0
red_giants + red_clump: 1025

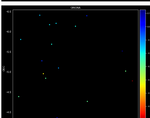
Dec: 20
Ra: 40
Dmin: 110
Dmax: 110
Mv: 100
Mag: 100
==========================================
```











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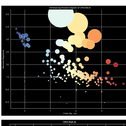
SFCMA-0

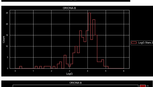
Progenitor: 1'z0e'7

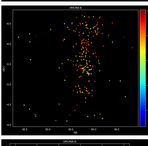
main_separator: 50
hydro?: 0
subgrids: 30
cooling: 0
rad_pressure: 0
rad_flux: 0
rad_grads: 0 rad_clump: 121

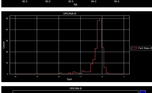
Mp: 0
Vx: 0
Vy: 0
Vz: 0
Mdisk: 0
Mbulge: 0
Mg: 30

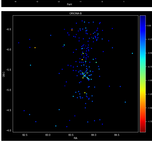
==========











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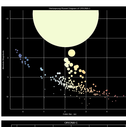
SFCMA-0

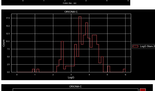
Progenitor: 1'z0e'7

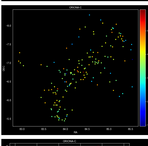
main_separator: 40
hydro?: 0
subgrids: 30
cooling: 0
rad_pressure: 0
rad_flux: 0
rad_grads: 167
rad_clump: 0
rad_grads: 0 rad_clump: 154

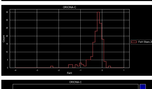
Mp: 0
Vx: 0
Vy: 0
Vz: 0
Mdisk: 0
Mbulge: 0
Mg: 30

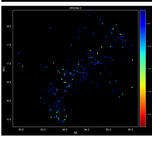
==========











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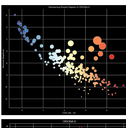
SFCMA-0

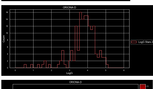
Progenitor: 1'z0e'7

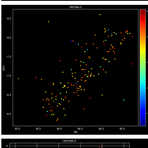
main_separator: 30
hydro?: 0
subgrids: 30
cooling: 0
rad_pressure: 0
rad_flux: 0
rad_grads: 148
rad_clump: 0

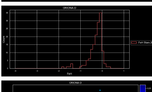
Mp: 0
Vx: 0
Vy: 0
Vz: 0
Mdisk: 0
Mbulge: 0
Mg: 30

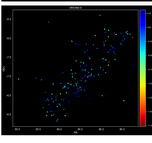
==========











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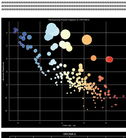
SFCMA-0

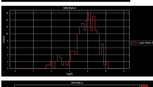
Progenitor: 1'z0e'7

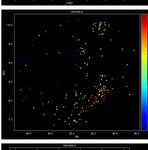
main_separator: 50
hydro?: 0
subgrids: 30
cooling: 0
rad_pressure: 0
rad_flux: 0
rad_grads: 0 rad_clump: 125

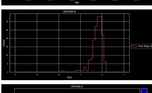
Mp: 0
Vx: 0
Vy: 0
Vz: 0
Mdisk: 0
Mbulge: 0
Mg: 30

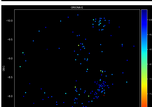
==========











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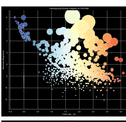
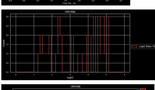
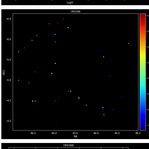
DRONE
Programmer: ['spaper']

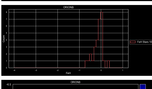
main_separator: 10
subgroup: 0
sub_subgroup: 0
num_points: 4000
num_clusters: 4
real_clusters = num_clusters: 10/20

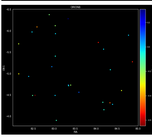
Dec: 0
Inc: 0
Dim: 10
Mag: 100
Mu: 400
Sig: 10
==========
==========
```









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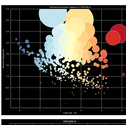
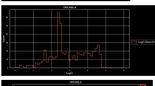
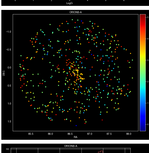
DRONE-0
Programmer: ['ivor']

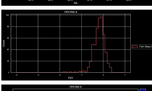
main_separator: 100
subgroup: 0
sub_subgroup: 10
num_points: 100
real_clusters = num_clusters: 3/7

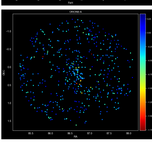
Dec: 0
Inc: 0
Dim: 10
Mag: 10
Mu: 100
Sig: 10
==========
==========
```









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DRONE-0
Programmer: ['ivor']

main_separator: 127
subgroup: 0
sub_subgroup: 10
num_points: 200
real_clusters = num_clusters: 3/7

Dec: 0
Inc: 0
Dim: 10
Mag: 10
Mu: 100
Sig: 10
==========
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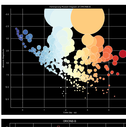
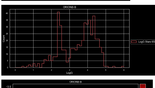
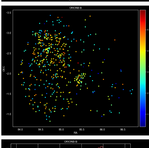
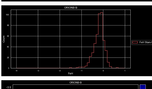
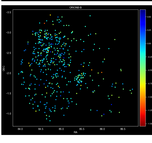
```









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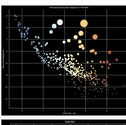
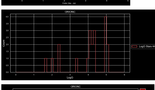
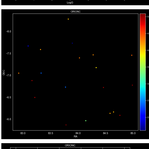
DRONE
Programmer: ['spaper']

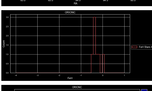
main_separator: 10
subgroup: 0
sub_subgroup: 0
num_points: 4000
real_clusters = num_clusters: 424

Dec: 0
Inc: 0
Dim: 10
Mag: 10
Mu: 10
Sig: 10
==========
==========
```









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DR1080

Programname: ['opsqso']

main_sampsize: 7
hsplit: 0
hsplitfit: 0
hsplitsize: 30
rand_sampsize: 40
rad_points: 240

Ra: 30
Dec: 40
Mag: 20
Magz: 22
Mag: 20
Mag: 22

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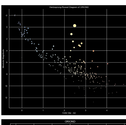

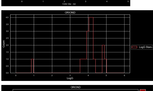

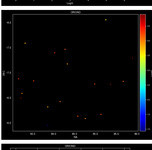

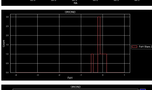

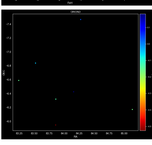


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DR1080

Programname: ['opsqso']

main_sampsize: 10
hsplit: 0
hsplitfit: 0
rand_sampsize: 413
rad_points: 413

Ra: 30
Dec: 40
Mag: 20
Mag: 22
Mag: 20
Mag: 22

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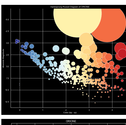

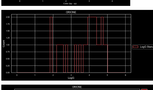

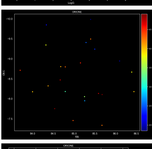

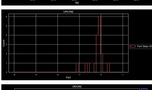

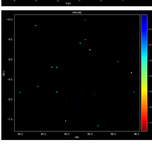


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DR1080DR10-A

Programname: ['zcut']

main_sampsize: 125
hsplit: 0
hsplitfit: 0
rand_sampsize: 50
rad_points: 0
rad_points: 0 rad_flimp: 152

Ra: 30
Dec: 40
Mag: 20
Mag: 22
Mag: 20
Mag: 22

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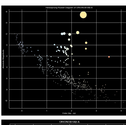

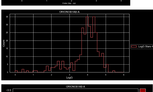

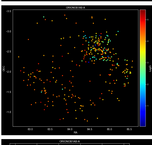

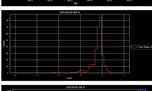

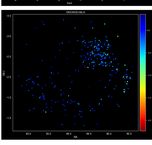


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DR1080DR10-B

Programname: ['zcut']

main_sampsize: 164
hsplit: 0
hsplitfit: 0
rand_sampsize: 164
rad_points: 164
rad_points: 164 rad_flimp: 500

Ra: 30
Dec: 40
Mag: 20
Mag: 22
Mag: 20
Mag: 22

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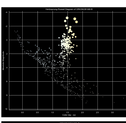
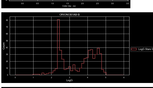
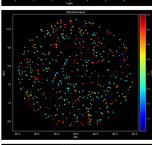
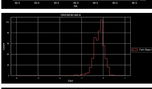
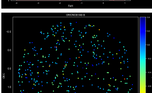
```

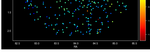












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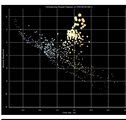
SPCMBR08-C

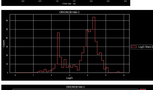
Programme: ('jw')

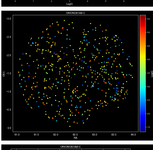
mass_separator: 200
turnoff: 180
subgiants: 31
red_giants: 80
red_giants - red_clump: 173

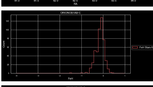
Nc: 41
Nbs: 18
Nbs: 18
Nbs: 17
Nc: 7
Nc: 6

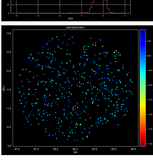
==========











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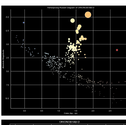
SPCMBR08-D

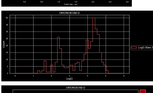
Programme: ('jw')

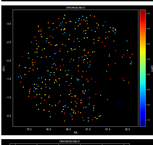
mass_separator: 180
turnoff: 160
subgiants: 31
red_giants: 87
red_giants - red_clump: 138

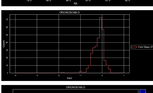
Nc: 41
Nbs: 18
Nbs: 17
Nc: 7
Nc: 6

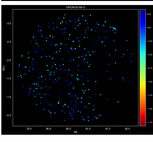
==========











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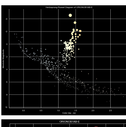
SPCMBR08-E

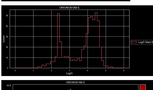
Programme: ('jw')

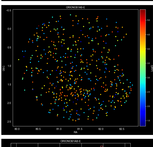
mass_separator: 160
turnoff: 140
subgiants: 28
red_giants: 89
red_giants - red_clump: 213

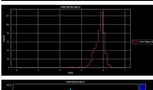
Nc: 41
Nbs: 18
Nbs: 17
Nc: 7
Nc: 6

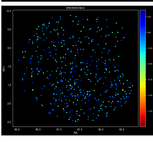
==========











==========

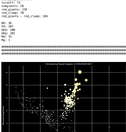
SPCMBR08-F

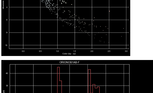
Programme: ('jw')

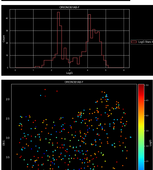
mass_separator: 140
turnoff: 120
subgiants: 30
red_giants: 84
red_giants - red_clump: 300

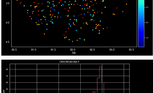
Nc: 41
Nbs: 18
Nbs: 18
Nc: 7
Nc: 6

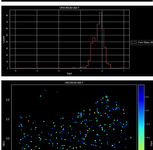
==========

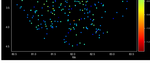












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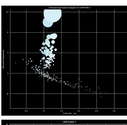
DEFRAG 0

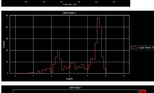
Programmer: ['hels_ertner']

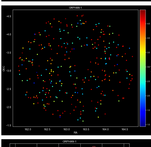
main_separator: 155
turnoff: 70
subpoints: 7
red_points: 80
red_clump: 20
red_points - red_clump: 102

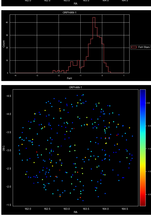
Mv: 1
Ma: 0
Mdp: 0.07
Mdg: 0.04
Mg: 0.2
Mp: 0

==========









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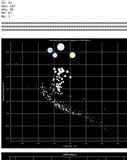
DEFRAG 2

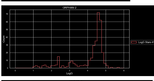
Programmer: ['hels_ertner']

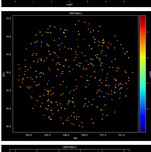
main_separator: 148
turnoff: 70
subpoints: 10
red_points: 148
red_clump: 18
red_points - red_clump: 130

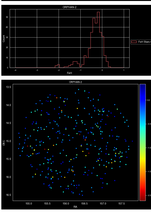
Mv: 1
Ma: 0
Mdp: 0.07
Mdg: 0.04
Mg: 0.2
Mp: 0

==========









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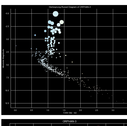
DEFRAG 1

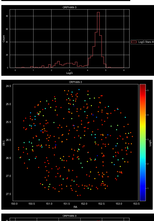
Programmer: ['hels_ertner']

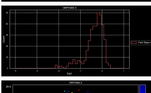
main_separator: 161
turnoff: 70
subpoints: 7
red_points: 91
red_clump: 22
red_points - red_clump: 139

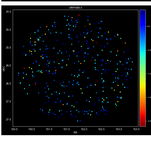
Mv: 1
Ma: 0
Mdp: 0.07
Mdg: 0.04
Mg: 0.2
Mp: 0

==========









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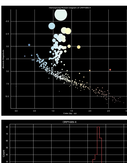
DEFRAG 2

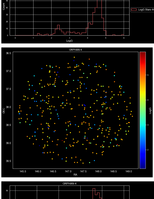
Programmer: ['hels_ertner']

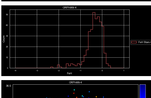
main_separator: 148
turnoff: 70
subpoints: 10
red_points: 148
red_clump: 18
red_points - red_clump: 130

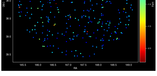
Mv: 1
Ma: 0
Mdp: 0.07
Mdg: 0.04
Mg: 0.2
Mp: 0

==========









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DEFAULT

Prog:mpdbase: ['halo_stream']

main_separator: 100
sep_type: 1
subgroup: 1
sep_parents: 110
sep_clumps: 10
sep_parents + sep_clumps: 123

Dir: 0
Snap: 0
Step: 270
Min: 270
Max: 270
Ng: 1
==============================================================
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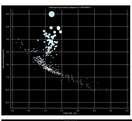
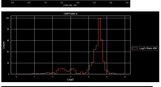
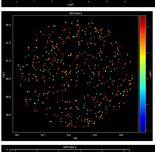
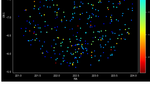
```









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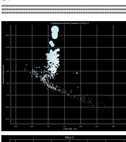
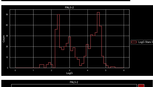
Hella-2

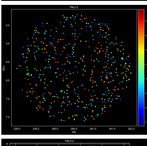
Programmer: ['hella_kirker']

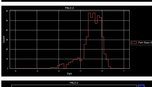
main_sequence: 100
turnoff: 50
subgiants: 0
redgiants: 0
red_clump: 207
rot_clump: 0
red_giants = red_clump: 243

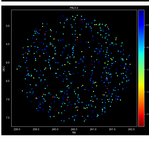
Bin: 0
Min: 0
Max: 100
Dim: 100
No: 0











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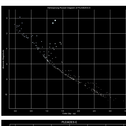
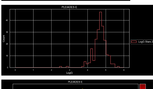
Pleiades-2

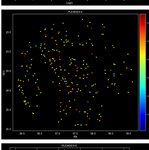
Programmer: ['cor']

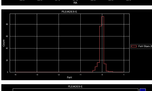
main_sequence: 284
turnoff: 0
subgiants: 0
redgiants: 0
red_clump: 0
rot_clump: 0
red_giants = red_clump: 24

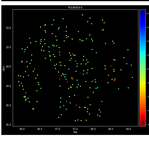
Bin: 0
Min: 0
Max: 28
Dim: 28
No: 0











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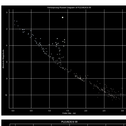
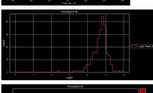
Pleiades-4

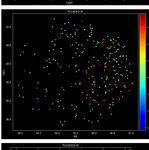
Programmer: ['cor']

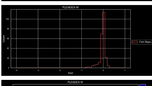
main_sequence: 219
turnoff: 0
subgiants: 0
redgiants: 0
red_clump: 0
rot_clump: 0
red_giants = red_clump: 25

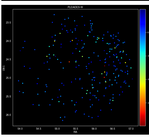
Bin: 0
Min: 0
Max: 28
Dim: 28
No: 0











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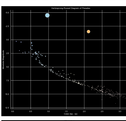
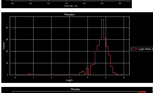
Pleiades

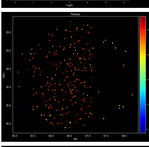
Programmer: ['pepper']

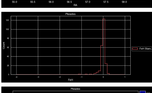
main_sequence: 228
turnoff: 0
subgiants: 0
redgiants: 0
red_clump: 0
rot_clump: 0
red_giants = red_clump: 32

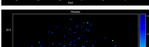
Bin: 0
Min: 0
Max: 0
Dim: 0
No: 0

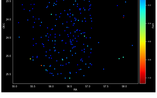










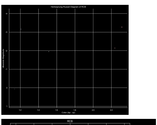


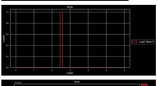
```
NCN

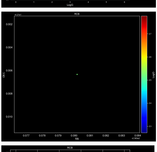
Programname: [can can can can can]

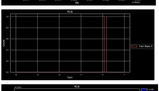
main_separator: 0
lumpfilt: 0
subgrants: 0
subgrantfrac: 0
rnd_gamma: 0
rnd_flimit: 0 rnd_rlimit: 0

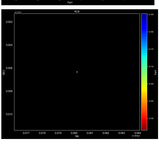
Obs: 0
Ubs: 0
Abs: 0
Mag: 0
Ra: 0
Dec: 0
```









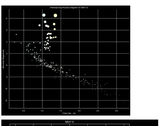


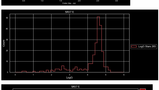

```
SAO-6

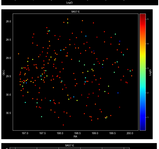
Programname: [rac]

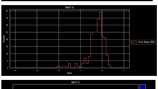
main_separator: 175
lumpfilt: 15
subgrants: 0
subgrantfrac: 0
rnd_gamma: 0
rnd_flimit: 0 rnd_rlimit: 69

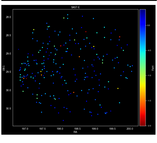
Obs: 0
Ubs: 0
Abs: 50
Mag: 50
Ra: 0
Dec: 0
```









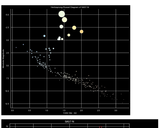


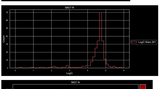

```
SAO-8

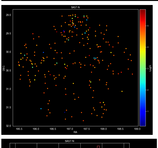
Programname: [rac]

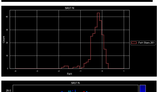
main_separator: 200
lumpfilt: 0
subgrants: 0
subgrantfrac: 0
rnd_gamma: 0
rnd_flimit: 0 rnd_rlimit: 43

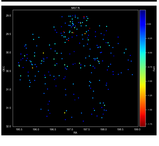
Obs: 0
Ubs: 0
Abs: 100
Mag: 100
Ra: 0
Dec: 0
```









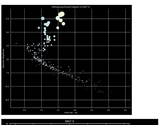


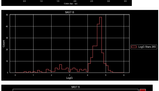

```
SAO-9

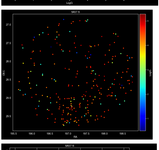
Programname: [rac]

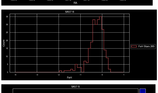
main_separator: 170
lumpfilt: 0
subgrants: 0
subgrantfrac: 0
rnd_gamma: 0
rnd_flimit: 0 rnd_rlimit: 58

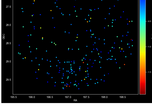
Obs: 0
Ubs: 0
Abs: 0.5
Mag: 0.5
Ra: 0
Dec: 0
```











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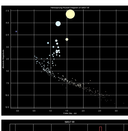
SD12-M

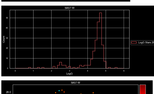
Dropsubnums: ['sev']

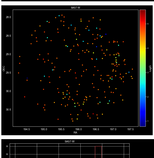
main_subsamples: 102
hyselect: 1
subgalmin: 0
nad_gamma: 64
nad_cutmag: 0
nad_clump: 50

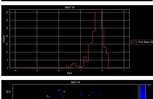
Dec: 1
Ra: 1
Mag: 17
Mag: 22
Mag: 0
Mag: 0

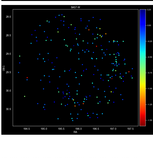
==========











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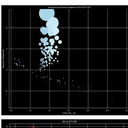
SD12PSM

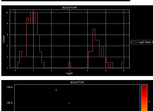
Dropsubnums: ['hels_dupl']

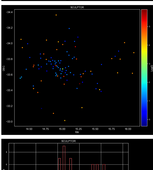
main_subsamples: 38
hyselect: 1
subgalmin: 0
nad_gamma: 64
nad_cutmag: 0
nad_clump: 231

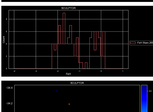
Dec: 1
Ra: 1
Mag: 18
Mag: 23
Mag: 0
Mag: 0

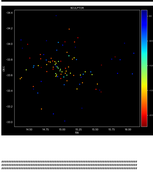
==========











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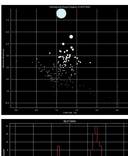
SD7MB1

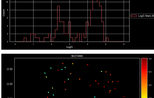
Dropsubnums: ['hels_dupl']

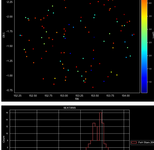
main_subsamples: 38
hyselect: 1
subgalmin: 0
nad_gamma: 64
nad_cutmag: 0
nad_clump: 194

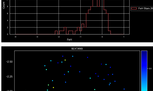
Dec: 1
Ra: 1
Mag: 18
Mag: 22
Mag: 0
Mag: 0

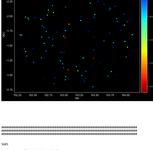
==========











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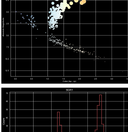
SD8L

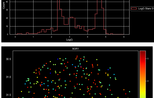
Dropsubnums: ['sampar', 'marvels']

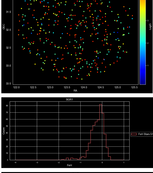
main_subsamples: 100
hyselect: 12
subgalmin: 0
nad_gamma: 400
nad_cutmag: 0
nad_clump: 222

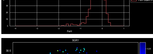
Dec: 0
Ra: 0
Mag: 138
Mag: 22
Mag: 0
Mag: 0

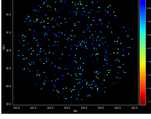
==========











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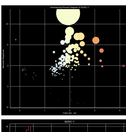
SUBC-1

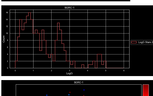
Programmer: I'ngr'I

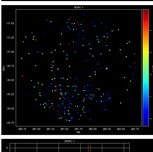
main_sequence: 10
mass_ratio: 1
subgenotic: 1
subgenotic_ratio: 10
red_gravity: 20
red_gravity_t_mul_time: 230

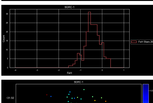
Day: 0
Hour: 0
Min: 0
Mass: 57
Mut: 15
Mp: 126

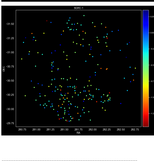
==========











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SUBC-3

Programmer: I'ngr'I

main_sequence: 10
mass_ratio: 1
subgenotic: 1
subgenotic_ratio: 200
red_gravity: 20
red_gravity_t_mul_time: 205

Day: 0
Hour: 0
Min: 0
Mass: 46
Mut: 15
Mp: 93

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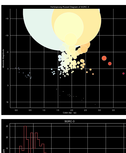
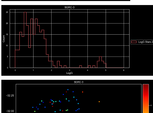
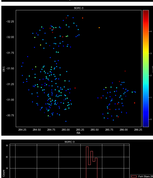
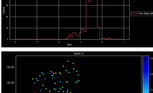
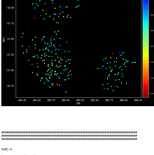










==========

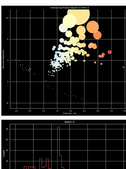
SUBC-4

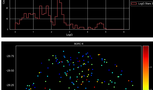
Programmer: I'ngr'I

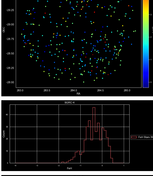
main_sequence: 20
mass_ratio: 1
subgenotic: 1
subgenotic_ratio: 1
red_gravity: 20
red_gravity_t_mul_time: 303

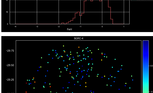
Day: 0
Hour: 0
Min: 0
Mass: 46
Mut: 15
Mp: 93

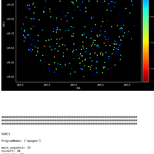
==========











==========

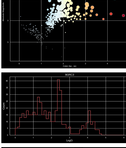
SUBC-5

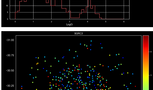
Programmer: I'ngr'I

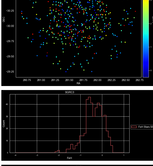
main_sequence: 35
mass_ratio: 1
subgenotic: 1
subgenotic_ratio: 10
red_gravity: 20
red_gravity_t_mul_time: 362

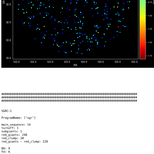
Day: 30
Hour: 0
Min: 0
Mass: 104
Mut: 15
Mp: 126

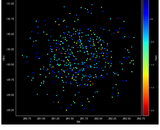
==========











==========

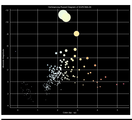
SCN70-44

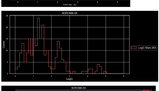
```
Programmer: ['apogee']

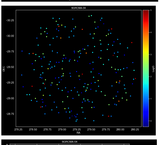
main_sequence: 10
turnoff: 5
subgiant: 3
red_giant: 10
rgb_giant: 10
red_giants = red_clump: 225

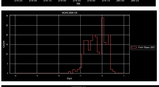
Mv: 0
Iv: 0
Dmin: 0
Dmax: 4
Mu: 0
Mu: 0
```

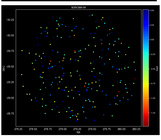
==========











==========

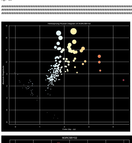
SCN70-45

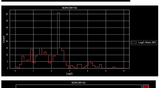
```
Programmer: ['apogee']

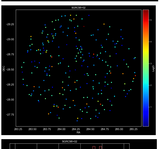
main_sequence: 10
turnoff: 5
subgiant: 3
red_giant: 10
rgb_giant: 10
red_giants = red_clump: 191

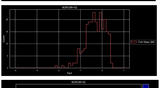
Mv: 0
Iv: 0
Dmin: 0
Dmax: 4
Mu: 0
Mu: 0
```

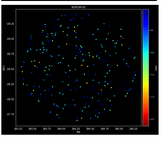
==========











==========

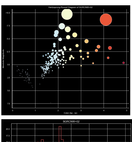
SCN70-61

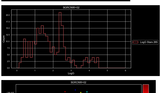
```
Programmer: ['apogee']

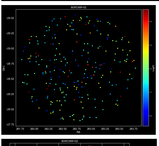
main_sequence: 10
turnoff: 5
subgiant: 3
red_giant: 10
rgb_giant: 10
red_giants = red_clump: 258

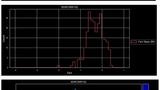
Mv: 0
Iv: 0
Dmin: 0
Dmax: 4
Mu: 0
Mu: 0
```

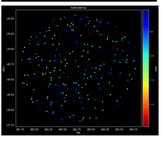
==========











==========

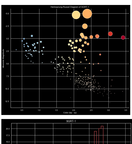
SGR1-1

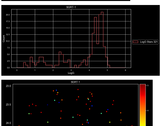
```
Programmer: ['hatn_stream']

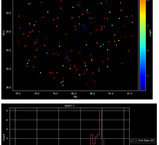
main_sequence: 10
turnoff: 5
subgiant: 3
red_giant: 10
rgb_giant: 10
red_giants = red_clump: 392

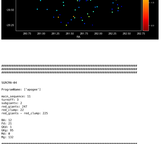
Mv: 0
Iv: 0
Dmin: 0
Dmax: 4
Mu: 0
Mu: 0
```

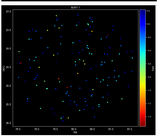
==========











==========

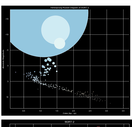
SHP-2

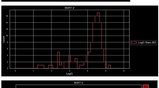
Programmer: ['sgr_tide']

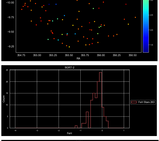
main_separator: 75
subsplit: 3
subparts: 1
mag_limit: 6
red_limit: 0
red_points = red_lim: 171

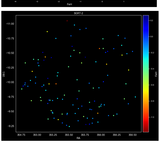
Dec: 2
Ra: 180
Dec_lim: 30
Ra_lim: 30
Mag: 6
Mu: 0

==========









==========

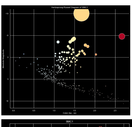
SMC

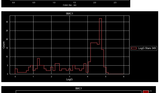
Programmer: ['map/lasso']

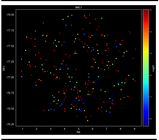
main_separator: 150
subsplit: 12
subparts: 1
mag_limit: 200
red_points = red_lim: 241

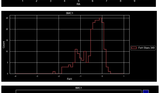
Dec: 0
Ra: 0
Dec_lim: 150
Ra_lim: 150
Mag: 6
Mu: 0

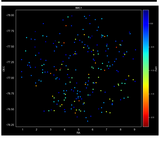
==========











==========

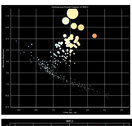
SMC2

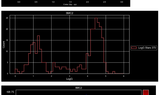
Programmer: ['map/lasso']

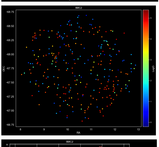
main_separator: 120
subsplit: 12
subparts: 2
mag_limit: 6
red_points = red_lim: 200

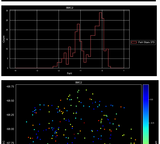
Dec: 0
Ra: 0
Dec_lim: 150
Ra_lim: 150
Mag: 6
Mu: 0

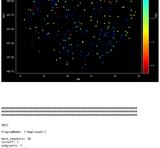
==========











==========

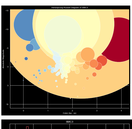
SMC3

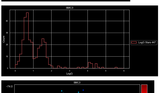
Programmer: ['map/lasso']

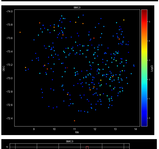
main_separator: 10
subsplit: 6
subparts: 2
mag_limit: 6
red_points = red_lim: 426

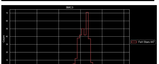
Dec: 0
Ra: 0
Dec_lim: 67
Ra_lim: 67
Mag: 6
Mu: 255

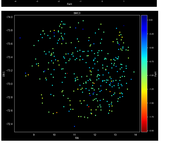
==========











==========

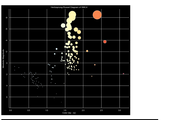
DM3

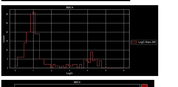
Programmes: ['map/cuts']

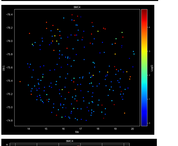
```
main_separator: 22
halo0Pt: 0
halo1Pt: 0
red_gamma: 250
Min: 0.00
red_gamma + red_clump: 247
```

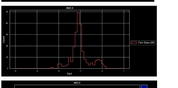
```
Dec: 2
Ra: 0
dDec: 2
dRa: 2.5
Min: 0
Max: 100
```

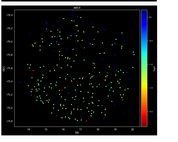
==========











==========

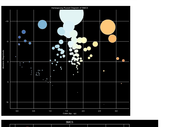
DM3

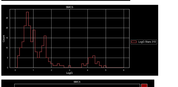
Programmes: ['map/cuts']

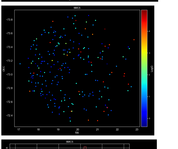
```
main_separator: 30
halo0Pt: 0
halo1Pt: 0
red_gamma: 250
red_clump: 0
red_gamma + red_clump: 201
```

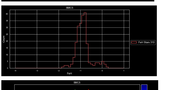
```
Dec: 2
Ra: 0
dDec: 2
dRa: 2.5
Min: 0.00
Max: 100
```

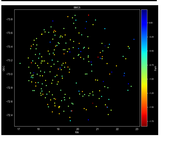
==========











==========

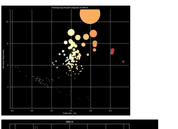
DM3

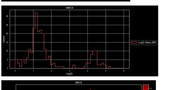
Programmes: ['map/cuts']

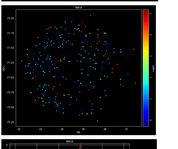
```
main_separator: 0
halo0Pt: 0
halo1Pt: 0
red_gamma: 250
red_clump: 0
red_gamma + red_clump: 230
```

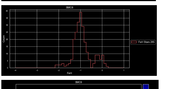
```
Dec: 2
Ra: 0
dDec: 2
dRa: 2.5
Min: 0.00
Max: 0.5
```

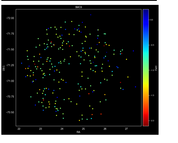
==========











==========

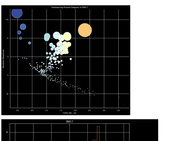
DM3

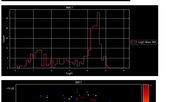
Programmes: ['map/cuts']

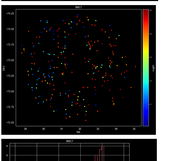
```
main_separator: 180
halo0Pt: 0
halo1Pt: 0
red_gamma: 250
red_clump: 0
red_gamma + red_clump: 240
```

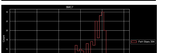
```
Dec: 2
Ra: 0
dDec: 2
dRa: 2.5
Min: 0.00
Max: 100
```

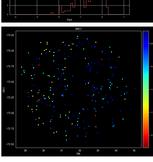
==========











==========

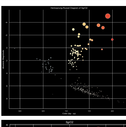
Sgr02

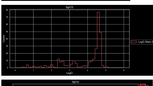
Programmer: I'mpaper'l

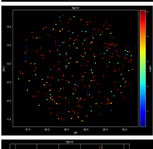
main_separator: 175
nsplit: 4
subplots: 4
nsubplots: 4
rad_frac: 10
rad_frac = rad_frac: 40

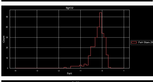
Nx: 1
Ny: 1
Nz: 1
Nxy: 1
Nxz: 1
Nyz: 1
Nv: 1

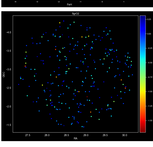
==========











==========

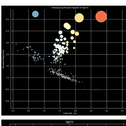
Sgr03

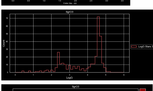
Programmer: I'mpaper'l

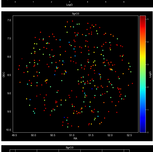
main_separator: 179
nsplit: 4
subplots: 4
nsubplots: 4
rad_frac: 10
rad_frac = rad_frac: 111

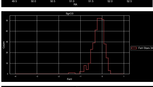
Nx: 1
Ny: 1
Nz: 1
Nxy: 1
Nxz: 1
Nyz: 1
Nv: 1

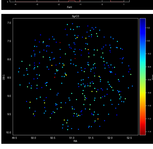
==========











==========

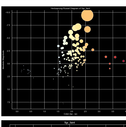
Sgr_Scott

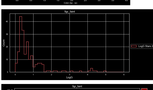
Programmer: I'clarion_pc'l

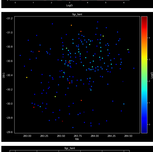
main_separator: 5
nsplit: 4
subplots: 4
nsubplots: 4
rad_frac: 10
rad_frac = rad_frac: 211

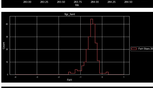
Nx: 0
Ny: 0
Nz: 0
Nxy: 0
Nxz: 0
Nyz: 0
Nv: 0

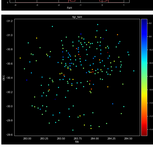
==========











==========

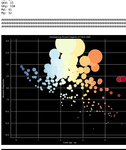
TRILUMN

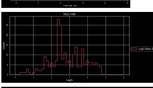
Programmer: I'ice'l

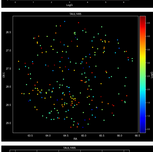
main_separator: 35
nsplit: 4
subplots: 16
nsubplots: 16
rad_frac: 40
rad_frac = rad_frac: 111

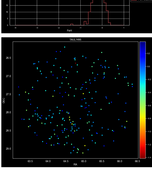
Nx: 0
Ny: 0
Nz: 0
Nxy: 134
Nxz: 0
Nyz: 0

==========





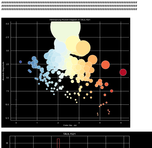


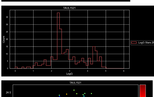


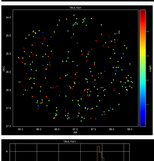

```
TAN.DAT
Propmaker: ['ice']

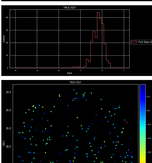
main_separator: 30
hyrsoft: 71
subparts: 10
sub_parts: 200
sub_mass: 0.01
ref_parts = sub_fluf: 130

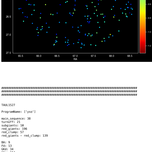
Nx: 5
Ny: 10
Nz: 20
Mx: 29
My: 29
Mz: 29
```







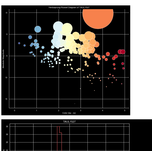


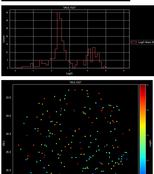


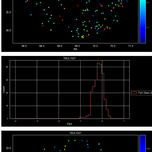
```
TAN.DAT
Propmaker: ['ice']

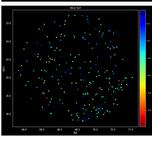
main_separator: 30
hyrsoft: 71
subparts: 10
sub_parts: 200
ref_parts = sub_fluf: 130

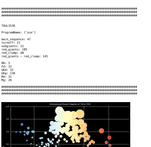
Nx: 5
Ny: 10
Nz: 20
Mx: 29
My: 29
Mz: 29
```











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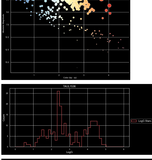
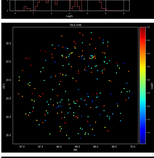
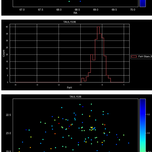
TAN.DAT
Propmaker: ['ice']

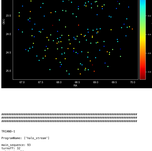
main_separator: 47
hyrsoft: 71
subparts: 10
sub_parts: 200
ref_parts = sub_fluf: 145

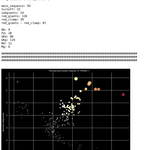
Nx: 5
Ny: 10
Nz: 20
Mx: 29
My: 29
Mz: 29
```







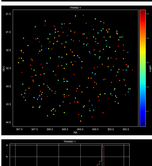


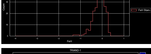


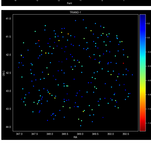
```
TEONE-I
Propmaker: ['halo_street']

main_separator: 91
hyrsoft: 71
subparts: 10
sub_parts: 200
ref_parts = sub_fluf: 87

Nx: 5
Ny: 10
Nz: 20
Mx: 29
My: 29
Mz: 29
```







****

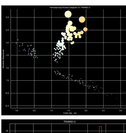
TRIAL-1

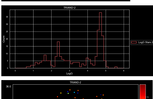
Propagation: ['halo_stream']

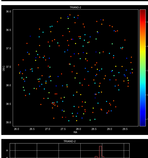
main_separator: 100
turnoff: 17
subpoints: 6
sub_separator: 10
red_points: 10
red_points = red_clump: 114

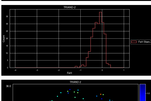
Ma: 0
Dec: 0
Ma: 20
Dec: 100
Ma: 0
Ma: 20

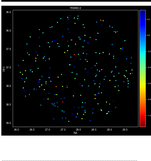
****











****

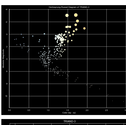
TRIAL-2

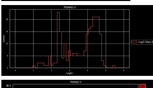
Propagation: ['halo_stream']

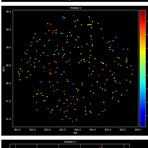
main_separator: 50
turnoff: 17
subpoints: 6
sub_separator: 10
red_points: 10
red_points = red_clump: 88

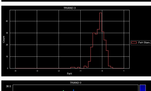
Ma: 0
Dec: 0
Ma: 20
Dec: 100
Ma: 0
Ma: 20

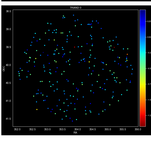
****











****

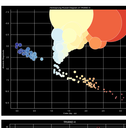
TRIAL-3

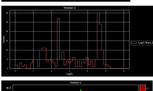
Propagation: ['halo_stream']

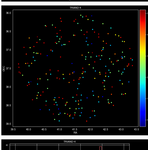
main_separator: 33
turnoff: 17
subpoints: 6
sub_separator: 10
red_points: 10
red_points = red_clump: 130

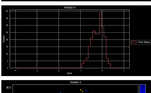
Ma: 0
Dec: 0
Ma: 20
Dec: 100
Ma: 0
Ma: 20

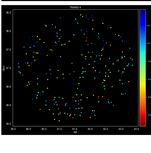
****











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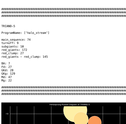
TRIAL-4

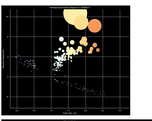
Propagation: ['halo_stream']

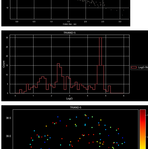
main_separator: 33
turnoff: 17
subpoints: 6
sub_separator: 10
red_points: 10
red_points = red_clump: 130

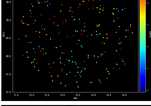
Ma: 0
Dec: 0
Ma: 20
Dec: 100
Ma: 0
Ma: 20

****









****

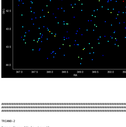
TRIAL-5

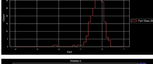
Propagation: ['halo_stream']

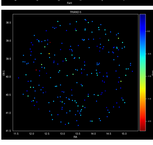
main_separator: 70
turnoff: 17
subpoints: 6
sub_separator: 10
red_points: 10
red_points = red_clump: 145

Ma: 0
Dec: 0
Ma: 20
Dec: 100
Ma: 0
Ma: 20

****







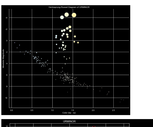
****
GRP0000
****

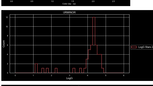
Prog=ramses: ['halo_dump']

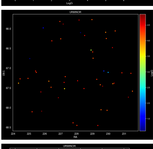
nwin_sqsearch: 20
nsnap=51: 40
nsubparts: 20
ncd_points: 255
ncd_clump: 20
ncd_points = ncd_clump: 255

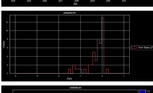
Dec: 0
Ra: 0
Qdim: 20
Qdim: 20
Mag: 5
Mag: 5

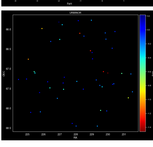
****
GRP0000
****











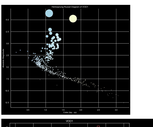
****
GRP0001
****

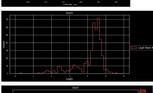
Prog=ramses: ['mergerfix']

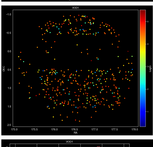
nwin_sqsearch: 40
nsnap=51: 40
nsubparts: 20
ncd_points: 20
ncd_clump: 20
ncd_points = ncd_clump: 99

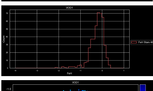
Dec: 0
Ra: 0
Qdim: 20
Qdim: 20
Mag: 100
Mag: 100

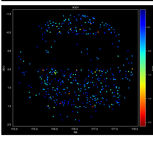
****
GRP0001
****











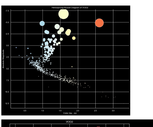
****
GRP0002
****

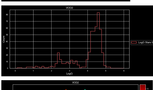
Prog=ramses: ['spaspe-mergerfix']

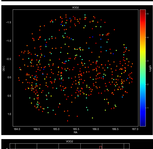
nwin_sqsearch: 120
nsnap=51: 40
nsubparts: 20
ncd_points: 160
ncd_points = ncd_clump: 120

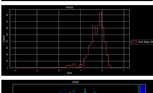
Dec: 0
Ra: 0
Qdim: 250
Qdim: 250
Mag: 50
Mag: 50

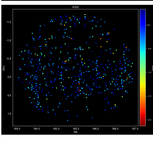
****
GRP0002
****











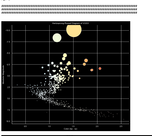
****
GRP0003
****

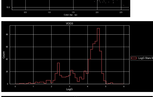
Prog=ramses: ['spaspe-mergerfix']

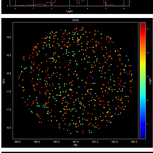
nwin_sqsearch: 120
nsnap=51: 40
nsubparts: 20
ncd_points: 160
ncd_points = ncd_clump: 100

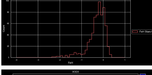
Dec: 0
Ra: 0
Qdim: 250
Qdim: 250
Mag: 50
Mag: 50

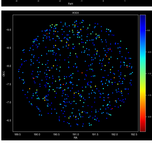
****
GRP0003
****









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KO-4

Programmer: ['anc']

main_separator: 90
height: 10
subgenre: 30
rnd_genre: 2
rnd_genre: 4
rnd_genre: [ 'rnd_time': 17]

Mo: 10
Tu: 15
We: 23
Th: 4
Fr: 8
Sa: 6
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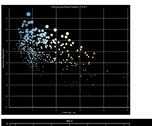

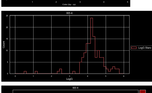

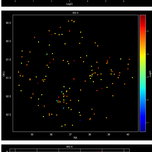

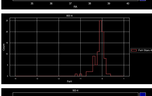

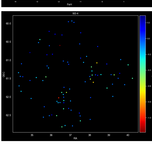


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WC

Programmer: ['anc']

main_separator: 125
height: 10
subgenre: 30
rnd_genre: 124
rnd_genre: 4
rnd_genre: [ 'rnd_time': 131]

Mo: 20
Tu: 20
We: 20
Th: 20
Fr: 8
Sa: 6
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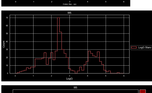

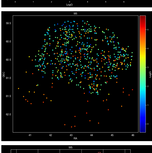

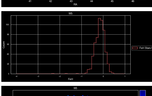

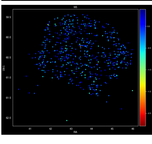


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Wha

Programmer: ['anc']

main_separator: 1
height: 10
subgenre: 30
rnd_genre: 30
rnd_genre: 4
rnd_genre: [ 'rnd_time': 105]

Mo: 10
Tu: 20
We: 20
Th: 20
Fr: 20
Sa: 20
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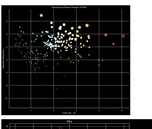

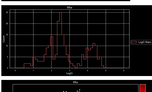

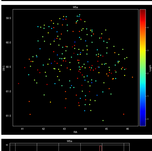

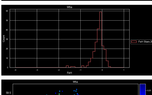

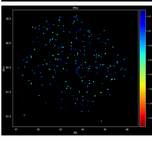


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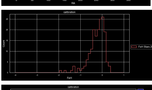
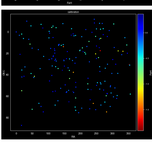
unfortunate

Programmer: ['rnd_time', 'rnd_time', 'rnd_time', '
```





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cmphcal

Programmes: [tum tum tum tum tum tum tum tum tum tum tum tum tum tum tum tum
tum tum tum tum tum tum tum tum tum tum tum tum tum tum tum tum
tum tum]

main_sequence: 0
hydro0: 0
subgenerr: 0
hydro1: 0
rnd_clumps: 0
rnd_points = rnd_clump: 30

Nx: 0
Ny: 0
Nz: 0
Mmin: 0
Mmax: 0
Mp: 0
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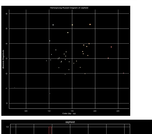
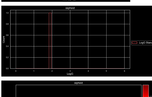
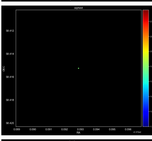
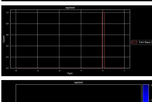
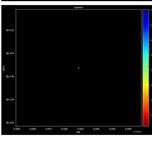
```











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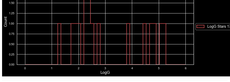
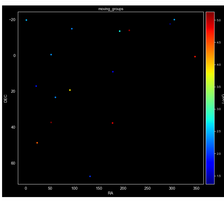
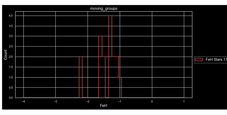
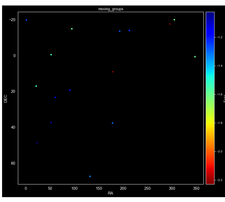
trip

Programmes: [tum tum tum tum tum tum tum tum tum tum tum tum tum tum tum tum
tum tum
```







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##############################################################################
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rrfpr

ProgramName: [nan nan nan nan nan nan nan nan nan nan nan nan nan nan nan nan
 nan nan nan nan nan nan nan nan nan nan nan nan]

main_sequence: 0
turnoff: 0
subgiants: 0
red_giants: 30
red_clump: 0
red_giants - red_clump: 30

BA: 1
FA: 18
GKA: 0
GKp: 0
MA: 0
Mp: 0

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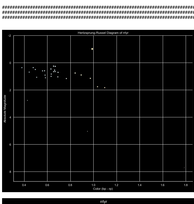
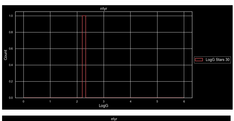
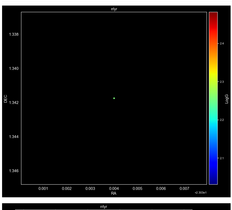
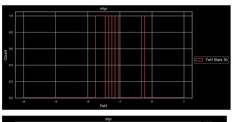
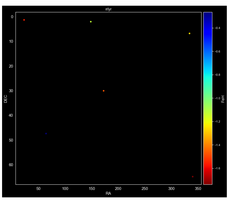
```









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

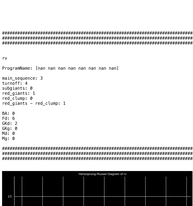
rv

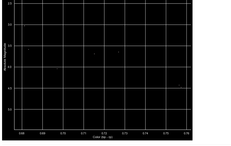
ProgramName: [nan nan nan nan nan nan nan]

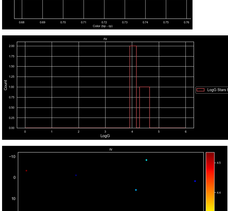
main_sequence: 3
turnoff: 0
subgiants: 0
red_giants: 1
red_clump: 0
red_giants - red_clump: 1

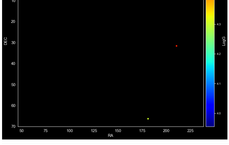
BA: 0
FA: 4
GKA: 2
GKp: 0
MA: 0
Mp: 0

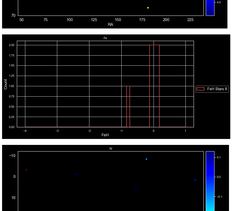
##############################################################################
##############################################################################
##############################################################################
```











Done!

[122]: