```
Python 3.7.6 (default, Jan 28 2020, 05:20:03)
[GCC 9.2.0] : Anaconda, Inc. on linux2 type help, copyright, credits or license for more information.
IPython 7.12.0 -- An enhanced Interactive Python.
help!.
In [1]: runfile('/Users/jsoumarokis/opa/Apps/Ap Target Program MR.py', wdir='/Users/jsoumarokis/opa')
/Users/jsoumarokis/opa/lib/python3/bin/python
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WPAGE_TARGETS_bin_0 = WPAGE_DAC_DEMO0

Star selected using KJCC:DAC demodemong

Fields: ['DAC0:AD' 'DAC0:DC' 'DAC0:B1' 'DAC0:B2' 'DAC0:B3' 'DAC1:AD' 'DAC1:B1'
'DAC1:B2' 'DAC1:B3' 'DAC2:AD' 'DAC2:DC' 'DAC2:B1' 'DAC2:B2' 'DAC2:B3'
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'DAC6:B2' 'DAC6:B3' 'DAC7:AD' 'DAC7:DC' 'DAC7:B1' 'DAC7:B2' 'DAC7:B3']

Shape: (470)

main_sequence: 2
hasSATS: 0
hasTLM: 1
rmt_index: 43
rmt_name: 0
rmt_pkents: rmt_index: 6355

Obs: 0
Ver: 0
Ack: 0
Seq: 0011
Mid: 0
Pkt: 0
Time: 0
N_sat_mem: 3750.67
```

```
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WPAGE_TARGETS_bin_0 = WPAGE_WCSC_DEMO0

Star selected using KJCC:WCSC demodemong

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'DAC0:AC26' 'DAC0:AC27' 'DAC0:AC28' 'DAC0:AC29' 'DAC0:AC30' 'DAC0:AC31'
'DAC0:AC32' 'DAC0:AD1' 'DAC0:AD2' 'DAC0:AD3' 'DAC0:AD4' 'DAC0:AD5'
'DAC0:AD6' 'DAC0:AD7' 'DAC0:AD8' 'DAC0:AD9' 'DAC0:AD10' 'DAC0:AD11'
'DAC0:AD12' 'DAC0:AD13' 'DAC0:AD14' 'DAC0:AD15' 'DAC0:AD16' 'DAC0:AD17'
'DAC0:AD18' 'DAC0:AD19' 'DAC0:AD20' 'DAC0:AD21' 'DAC0:AD22' 'DAC0:AD23'
'DAC0:AD24' 'DAC0:AD25' 'DAC0:AD26' 'DAC0:AD27' 'DAC0:AD28' 'DAC0:AD29'
'DAC0:AD30' 'DAC0:AD31' 'DAC0:AD32' 'DAC0:AE1' 'DAC0:AE2' 'DAC0:AE3'
'DAC0:AE4' 'DAC0:AE5' 'DAC0:AE6' 'DAC0:AE7' 'DAC0:AE8' 'DAC0:AE9'
'DAC0:AE10' 'DAC0:AE11' 'DAC0:AE12' 'DAC0:AE13' 'DAC0:AE14' 'DAC0:AE15'
'DAC0:AE16' 'DAC0:AE17' 'DAC0:AE18' 'DAC0:AE19' 'DAC0:AE20' 'DAC0:AE21'
'DAC0:AE22' 'DAC0:AE23' 'DAC0:AE24' 'DAC0:AE25' 'DAC0:AE26' 'DAC0:AE27'
'DAC0:AE28' 'DAC0:AE29' 'DAC0:AE30' 'DAC0:AE31' 'DAC0:AE32' 'DAC0:AF1'
'DAC0:AF2' 'DAC0:AF3' 'DAC0:AF4' 'DAC0:AF5' 'DAC0:AF6' 'DAC0:AF7'
'DAC0:AF8' 'DAC0:AF9' 'DAC0:AF10' 'DAC0:AF11' 'DAC0:AF12' 'DAC0:AF13'
'DAC0:AF14' 'DAC0:AF15' 'DAC0:AF16' 'DAC0:AF17' 'DAC0:AF18' 'DAC0:AF19'
'DAC0:AF20' 'DAC0:AF21' 'DAC0:AF22' 'DAC0:AF23' 'DAC0:AF24' 'DAC0:AF25'
'DAC0:AF26' 'DAC0:AF27' 'DAC0:AF28' 'DAC0:AF29' 'DAC0:AF30' 'DAC0:AF31'
'DAC0:AF32' 'DAC0:AG1' 'DAC0:AG2' 'DAC0:AG3' 'DAC0:AG4' 'DAC0:AG5'
'DAC0:AG6' 'DAC0:AG7' 'DAC0:AG8' 'DAC0:AG9' 'DAC0:AG10' 'DAC0:AG11'
'DAC0:AG12' 'DAC0:AG13' 'DAC0:AG14' 'DAC0:AG15' 'DAC0:AG16' 'DAC0:AG17'
'DAC0:AG18' 'DAC0:AG19' 'DAC0:AG20' 'DAC0:AG21' 'DAC0:AG22' 'DAC0:AG23'
'DAC0:AG24' 'DAC0:AG25' 'DAC0:AG26' 'DAC0:AG27' 'DAC0:AG28' 'DAC0:AG29'
'DAC0:AG30' 'DAC0:AG31' 'DAC0:AG32' 'DAC0:AH1' 'DAC0:AH2' 'DAC0:AH3'
'DAC0:AH4' 'DAC0:AH5' 'DAC0:AH6' 'DAC0:AH7' 'DAC0:AH8' 'DAC0:AH9'
'DAC0:AH10' 'DAC0:AH11' 'DAC0:AH12' 'DAC0:AH13' 'DAC0:AH14' 'DAC0:AH15'
'DAC0:AH16' 'DAC0:AH17' 'DAC0:AH18' 'DAC0:AH19' 'DAC0:AH20' 'DAC0:AH21'
'DAC0:AH22' 'DAC0:AH23' 'DAC0:AH24' 'DAC0:AH25' 'DAC0:AH26' 'DAC0:AH27'
'DAC0:AH28' 'DAC0:AH29' 'DAC0:AH30' 'DAC0:AH31' 'DAC0:AH32' 'DAC0:AI1'
'DAC0:AI2' 'DAC0:AI3' 'DAC0:AI4' 'DAC0:AI5' 'DAC0:AI6' 'DAC0:AI7'
'DAC0:AI8' 'DAC0:AI9' 'DAC0:AI10' 'DAC0:AI11' 'DAC0:AI12' 'DAC0:AI13'
'DAC0:AI14' 'DAC0:AI15' 'DAC0:AI16' 'DAC0:AI17' 'DAC0:AI18' 'DAC0:AI19'
'DAC0:AI20' 'DAC0:AI21' 'DAC0:AI22' 'DAC0:AI23' 'DAC0:AI24' 'DAC0:AI25'
'DAC0:AI26' 'DAC0:AI27' 'DAC0:AI28' 'DAC0:AI29' 'DAC0:AI30' 'DAC0:AI31'
'DAC0:AI32' 'DAC0:AJ1' 'DAC0:AJ2' 'DAC0:AJ3' 'DAC0:AJ4' 'DAC0:AJ5'
'DAC0:AJ6' 'DAC0:AJ7' 'DAC0:AJ8' 'DAC0:AJ9' 'DAC0:AJ10' 'DAC0:AJ11'
'DAC0:AJ12' 'DAC0:AJ13' 'DAC0:AJ14' 'DAC0:AJ15' 'DAC0:AJ16' 'DAC0:AJ17'
'DAC0:AJ18' 'DAC0:AJ19' 'DAC0:AJ20' 'DAC0:AJ21' 'DAC0:AJ22' 'DAC0:AJ23'
'DAC0:AJ24' 'DAC0:AJ25' 'DAC0:AJ26' 'DAC0:AJ27' 'DAC0:AJ28' 'DAC0:AJ29'
'DAC0:AJ30' 'DAC0:AJ31' 'DAC0:AJ32' 'DAC0:AK1' 'DAC0:AK2' 'DAC0:AK3'
'DAC0:AK4' 'DAC0:AK5' 'DAC0:AK6' 'DAC0:AK7' 'DAC0:AK8' 'DAC0:AK9'
'DAC0:AK10' 'DAC0:AK11' 'DAC0:AK12' 'DAC0:AK13' 'DAC0:AK14' 'DAC0:AK15'
'DAC0:AK16' 'DAC0:AK17' 'DAC0:AK18' 'DAC0:AK19' 'DAC0:AK20' 'DAC0:AK21'
'DAC0:AK22' 'DAC0:AK23' 'DAC0:AK24' 'DAC0:AK25' 'DAC0:AK26' 'DAC0:AK27'
'DAC0:AK28' 'DAC0:AK29' 'DAC0:AK30' 'DAC0:AK31' 'DAC0:AK32' 'DAC0:AL1'
'DAC0:AL2' 'DAC0:AL3' 'DAC0:AL4' 'DAC0:AL5' 'DAC0:AL6' 'DAC0:AL7'
'DAC0:AL8' 'DAC0:AL9' 'DAC0:AL10' 'DAC0:AL11' 'DAC0:AL12' 'DAC0:AL13'
'DAC0:AL14' 'DAC0:AL15' 'DAC0:AL16' 'DAC0:AL17' 'DAC0:AL18' 'DAC0:AL19'
'DAC0:AL20' 'DAC0:AL21' 'DAC0:AL22' 'DAC0:AL23' 'DAC0:AL24' 'DAC0:AL25'
'DAC0:AL26' 'DAC0:AL27' 'DAC0:AL28' 'DAC0:AL29' 'DAC0:AL30' 'DAC0:AL31'
'DAC0:AL32' 'DAC0:AM1' 'DAC0:AM2' 'DAC0:AM3' 'DAC0:AM4' 'DAC0:AM5'
'DAC0:AM6' 'DAC0:AM7' 'DAC0:AM8' 'DAC0:AM9' 'DAC0:AM10' 'DAC0:AM11'
'DAC0:AM12' 'DAC0:AM13' 'DAC0:AM14' 'DAC0:AM15' 'DAC0:AM16' 'DAC0:AM17'
'DAC0:AM18' 'DAC0:AM19' 'DAC0:AM20' 'DAC0:AM21' 'DAC0:AM22' 'DAC0:AM23'
'DAC0:AM24' 'DAC0:AM25' 'DAC0:AM26' 'DAC0:AM27' 'DAC0:AM28' 'DAC0:AM29'
'DAC0:AM30' 'DAC0:AM31' 'DAC0:AM32' 'DAC0:AN1' 'DAC0:AN2' 'DAC0:AN3'
'DAC0:AN4' 'DAC0:AN5' 'DAC0:AN6' 'DAC0:AN7' 'DAC0:AN8' 'DAC0:AN9'
'DAC0:AN10' 'DAC0:AN11' 'DAC0:AN12' 'DAC0:AN13' 'DAC0:AN14' 'DAC0:AN15'
'DAC0:AN16' 'D
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'CCD-007' 'CCD-012' 'CCD-030' 'CCD-038' 'CCD-121' 'CCD-124' 'CCD-126.01'
'CCD-127' 'CCD-128' 'CCD-129' 'CCD-130' 'CCD-131' 'CCD-132' 'CCD-133'
'CCD-134' 'CCD-135' 'CCD-136' 'CCD-137' 'CCD-138' 'CCD-139' 'CCD-140'
'CCD-141' 'CCD-142' 'CCD-143' 'CCD-144' 'CCD-145' 'CCD-146' 'CCD-147'
'CCD-148' 'CCD-149' 'CCD-150' 'CCD-151' 'CCD-152' 'CCD-153' 'CCD-154'
'CCD-155' 'CCD-156' 'CCD-157' 'CCD-158' 'CCD-159' 'CCD-160' 'CCD-161'
'CCD-162' 'CCD-163' 'CCD-164' 'CCD-165' 'CCD-166'

WFOSAD_SAMP WFOSAD_TARGETS bit 17, WFOSAD_TARGETS, ID

WFOSAD_TARGETS_bit_17

WFOSAD_TARGETS_bit_ID - WFOSAD_SAMP

Short cadence target star

Fields: ['000-017', '000-020', '000-026', '000-035', '000-037', '000-038', '000-039', '000-047', '000-048', '000-049', '000-050', '000-051', '000-052', '000-053', '000-054', '000-055', '000-056', '000-057', '000-058', '000-059', '000-060', '000-061', '000-062', '000-063', '000-064', '000-065', '000-066', '000-067', '000-068', '000-069', '000-070', '000-071', '000-072', '000-073', '000-074', '000-075', '000-076', '000-077', '000-078', '000-079', '000-080', '000-081', '000-082', '000-083', '000-084', '000-085', '000-086',

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Clusterline Line Stars APOGEE_TARGET1 bit 17:, 'APOGEE_TARGET1', (5)

APOGEE_TARGET1_bit_17

APOGEE_TARGET1_bit_18 = APOGEE_SEMAPHOREYTARG

Semaphoreyes interesting target to be observed

Fields: ['TARG']

Stars: 12

main_sequence: 0
giants: 12
subgiants: 0
dwarfs: 0
unknown: 0
[Fe/H]_phot_median: 0

Mv: 0
Jan: 0
Feb: 0
Mar: 0
Apr: 0
May: 0
Jun: 0

R_sun max: 96.53

****

[Optical Calibrator Star APOGEE_TARGET1 bit 20', APOGEE_TARGET2, 20]

APOGEE_TARGET1_bit_20

APOGEE_TARGET1_bit_20 - APOGEE_KOWES

Star with optical bi-mag spectra (ancillary)

Fields: ['2MASS-ID', 'RA-deg', 'Dec-deg', 'J2MASS', 'H2MASS', 'K2MASS', 'Mag']

Stars: 2

mean_separation: 0
sigma_sep: 0
separation: 0
sigma_sep: 0
red_gaussian: 0
red_gaussian - red_flag: 0

Mag: 0
Mag: 0
Mag: 0
Mag: 0
Mag: 0
Mag: 0

N_sat mass: 1.10

****

[Open of Red Giants Kepler/LaDel Fields APOGEE_TARGET1 bit 21', APOGEE_TARGET2, 23]

APOGEE_TARGET1_bit_21

APOGEE_TARGET1_bit_21 or 27 - APOGEE_OPEN_RED_GIANT

Open of Red Giants in the Kepler and LaDel Fields

bit 21 Stars 1234
bit 27 Stars 1234

PI: M. Pinsonneault (The Ohio State University)

APOGEE observed red giants in the Kepler field and two fields observed by the LaDel satellite (Meyle et al. 2008). These fields lie on opposite sides of the Galaxy with COROT0 at (l,b) = (170°, 17°) and COROT1 at (l,b) = (34°, -4°). Observations of these fields will provide a test of the Galaxy model in two very different directions and will be used to calibrate the stellar sizes.
Open of red giants observed in these fields provides unique opportunities for the LaDel stars permits the determination of fundamental stellar parameters, including age. Note that only the LaDel red giants and a limited number of Kepler red giants have bit 21 set.
Open of red giants observed in these fields provides unique opportunities for the LaDel stars permits the determination of fundamental stellar parameters, including age.

The LaDel set of 96 stars with accurate detections was selected from the sample analyzed in Mosser et al. (2010). Approximately 230 stars were targeted in the COROT0 field, and approximately 300 in COROT1.
For details on the Kepler red targets, see Pinsonneault et al. (2011).

Fields: ['COROT1', 'COROT0', 'COROT0', 'COROT0', 'COROT1', 'KELPLRA(J2', 'KELPLRD(J2', 'MAG(K)', 'MAG(K)']

Stars: 1234

mean_separation: 17
sigma_sep: 0
separation: 0
sigma_sep: 0
red_gaussian: 1
red_gaussian - red_flag: 700

Mag: 0
Mag: 0
Mag: 0
Mag: 0
Mag: 0
Mag: 0

N_sat mass: 525.00

****

[Velocity Reverse APOGEE_TARGET1 bit 23', APOGEE_TARGET2, 23]

APOGEE_TARGET1_bit_23

APOGEE_TARGET1_bit_23 - APOGEE_REPLPM_RR

Velocity Reverse

Stars 192

PI: S. Majewski (Penn State University) and S. Zasowski (UVic)

This ancillary program is monitoring Kepler RR systems to derive their dynamical mass ratios. Although masses and radii have been measured for the 13k local Kepler RR RRab (e.g., Kolbas et al. 2011; Nemec et al. 2011; Zasowski et al. 2009), dynamical mass measurements are lacking. The mass ratios are a valuable source of RRs, providing nearly continuous, extremely high-precision photometry (Fischer et al. 2010; Zasowski et al. 2009; Nemec et al. 2011) and thus are ideal for studying the Blazhko effect (Kolbas et al. 2011; Chadima et al. 2011; Prša et al. 2011; Szabó et al. 2011).
Observations of these systems will also provide a test of the pulsation models (e.g., Bono et al. 2011). These RRs will offer important constraints on multi-parameter stellar models.
Stars in this program are RRab and RRc stars.

The sample of Kepler RRs comes from the catalogs of Prša et al. (2011) and Zasowski et al. (2011). Because the Kepler sample is so large, we have selected a subset of the brightest RRs for which we can obtain high-S/N spectra. Since APOGEE is a survey, we will be able to use the Kepler data to ensure that we observe a range of stellar and orbital properties as possible.
Observations of these stars will also allow us to study the Galaxy's RR Lyrae classified as having a "detached morphology" (i.e., particularly long-period, high-amplitude Blazhko RRab; see Jurcsik et al. 2011). Because of their unique properties, these RRab are ideal for studying the Blazhko effect and for testing pulsation models. The left-hand side of the left-hand side of the left-hand side of the RRab's spectroscopic binary S/N ratio (Jurcsik et al. 2011) are included as ancillary calibrators.

Fields: ['KELPLATLOP', 'MAG(K)', 'METRIC', 'MAG(K)']

Stars: 96

mean_separation: 26
sigma_sep: 0
separation: 0
sigma_sep: 0
red_gaussian: 0
red_gaussian - red_flag: 15

Mag: 0
Mag: 0
Mag: 0
Mag: 0
Mag: 0
Mag: 0

N_sat mass: 25.00

****

[The Cluster Patamon 1 APOGEE_TARGET1 bit 24', APOGEE_TARGET2, 24]

APOGEE_TARGET1_bit_24

APOGEE_TARGET1_bit_24 - APOGEE_OC_MAJ

The Cluster Patamon 1

Stars 180

PI: S. Zasowski

Bit 1 is a faint, potentially young globular cluster that may be associated with the Monoceros Ring or Galactic Anticenter Stream (Rosenberg et al. 1999; Crane et al. 2003).
Observations of this cluster will provide a test of the Galaxy's RR Lyrae (Zasowski et al., 2010 and 2011) and a good candidate for a recently accreted object currently undergoing disruption by the Milky Way.
Observations of this cluster will provide a test of the Galaxy's RR Lyrae (Zasowski et al., 2010 and 2011) and a good candidate for a recently accreted object currently undergoing disruption by the Milky Way.
Observations of this cluster will provide a test of the Galaxy's RR Lyrae (Zasowski et al., 2010 and 2011) and a good candidate for a recently accreted object currently undergoing disruption by the Milky Way.
Sparse cluster, with the goal of tightly constraining the cluster's metallicity and exploring. Observations of this cluster will provide a test of the Galaxy's RR Lyrae.

The Cluster targets were selected with a combination of 2MASS and SDSS photometry.
The initial selection comprised 2MASS stars less than 0mag from the cluster center
The initial selection comprised 2MASS stars less than 0mag from the cluster center
The initial selection comprised 2MASS stars less than 0mag from the cluster center

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['MASSIVE_STARS APOGEE_TARGET1 b>= 25', 'APOGEE_TARGET1', 25]

APOGEE_TARGET1_b>=_25

APOGEE_TARGET1_b>= - APOGEE_MASSIVE_STAR

Massive Stars

Stars: 667

PI: G. Fabbian (Instituto de Astrofisica de Canarias)

Spectra of massive stars (B-Supers and red supergiants

This ancillary project is targeting OB stars and red supergiants (M0Ib) in a hue-proper study of obscured massive stars.

The first goal is to compile a spectral library of known OB stars.
These objects' young ages imply that they retained the present properties of the ISM.
Thus, the spectroscopic properties of these stars can be used as templates to compare with multiple snapshots of different evolutionary phases.
As the properties of supernovae, GB bursts are some of the primary drivers of galactic chemical evolution.

The second goal of this ancillary program is to observe a number of red-supergiant stars and M0Ib; located in the massive star-forming regions.
Because of their high luminosity, they are ideal tracers of the chemical composition of the ISM in the Galaxy (Cunha & Smith 2005; Cunha et al. 2012).
Although a large number of M0Ib have been observed with optical spectrographs, a number of M0Ib have been observed spectrographic.
Because of their high luminosity, they are ideal tracers of the chemical composition of the ISM in the Galaxy.
But the lack of absolute luminosity or reduce distance estimates has so far prevented clear conclusion amongst these scenarios.

The stars in this project are selected from the Galactic Legacy Infrared Mid-Plane Survey Extra of an. 2011),
in which all of the stars have a with-dimensional spectroscopic type and photometric data.
Citation MDwg and selected for Dec= 0 a 5 to 30 deg (Mdwg1: l=.0 - 0.75, and also Cyda: Dc = 320 - 0.4
Cyda: Dc = 320 - 0.4 Mdwg1: l=.0 - 0.75 Spectroscopic stars are selected using the 2D probabilistic technique of Negueruela et al. (2010)
and have magnitudes as faint as H = 10.0 mag.

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Fields: ['E\BV\BW']

Stars: 180

main_sequence: 5
subgiants: 2
giants: 173
red_clump: 13
red_giants: 173
red_giants - red_clump: 81

Gal: T
Lon: 0
Lat: 0
Dec: 0
Mag: 0
Mag: 0

R_sun Dec: 146.05















































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['APOGEE_SUB_EXPR APOGEE_TARGET1 b>= 20', 'APOGEE_TARGET1', 20]

APOGEE_TARGET1_b>=_20

APOGEE_TARGET1_b>= - APOGEE_SUB_EXPR

Sagittarius dwarf galaxy member

Fields: ['MYHUGE\_C' 'MYHUGE\_S' 'SGR1' 'SGR2-C' 'SGR2-S' 'SGR4-N' 'SGR4\_S'
'SGR5N.NW' 'SGR5NW\_S' 'SGR\_Main']

Stars: 300

main_sequence: 20
subgiants: 0
giants: 0
red_clump: 0
red_giants: 0
red_giants - red_clump: 300

Gal: T
Lon: 0
Lat: 0
Dec: 0
Mag: 0
Mag: 0

R_sun Dec: 1403.87





























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Fields: ['E\BV\BW']

Stars: 180

main_sequence: 5
subgiants: 2
giants: 173
red_clump: 13
red_giants: 173
red_giants - red_clump: 81

Gal: T
Lon: 0
Lat: 0
Dec: 0
Mag: 0
Mag: 0

R_sun Dec: 146.05















































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['APOGEE_EXPLOR_HOST APOGEE_TARGET1 b>= 20', 'APOGEE_TARGET1', 20]

APOGEE_TARGET1_b>=_20

APOGEE_TARGET1_b>= - APOGEE_EXPLOR_HOST

Apogee planet-host program target star

Fields: ['GES\_BDBLUE' 'GES\_BFLYER' 'GES\_BGLOLIT' 'GES\_BGLOLIT\_SEB\_ETG-S'
'GES\_BGLOLIT\_SEB\_ETG-W' 'GES\_BGLOLIT\_SEB\_ETG-W\_SEB\_ETG-S'
'GES\_BGLOLIT' 'GES\_BGLOLIT' 'GES\_BGLOLIT' 'GES\_BGLOLIT'
'GES\_BGLOLIT' 'GES\_BGLOLIT' 'GES\_BGLOLIT' 'GES\_BGLOLIT']

Stars: 139

main_sequence: 70
subgiants: 5
giants: 64
red_clump: 0
red_giants: 64
red_giants - red_clump: 7















































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Dec: 0
Mag: 18
Mg: 18

N_ext mean: 35.93

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( APOGEE_PLANET_EXTRA APOGEE_TARGET1 bit 29', 'APOGEE_TARGET1', 29)

APOGEE_TARGET1_bit_29

APOGEE_TARGET1_bit_29 = APOGEE_PLANET_EXTRA

Selected as field target for low target density field

Fields: ['DRAGON' 'ANNULI' 'RV0430' 'RV0440' 'RV0470' 'RV0540' 'RV0560' 'RV0580'
 'RV0640' 'RV0660' 'RV0680' 'RV0740' 'RV0760' 'RV0780' 'RV0840' 'RV0860'
 'RV0880' 'RV1 RV2' 'GC0630' 'B7B0460' 'GC0140' 'RV0840-01' 'RV0180'
 'RV0180-01' 'RV0180-02' 'RV0180-03' 'RV0180-04' 'RV0180-05' 'RV0180-06'
 'C2H0440' 'C2H0460' 'C2H0480' 'C2H0540' 'C2H0560' 'C2H0580' 'C2H0640'
 'C2H0660' 'C2H0680' 'C2H0740' 'C2H0760' 'C2H0780' 'C2H0840' 'C2H0860'
 'C2H0880' 'C2H0940' 'C2H0960' 'C2H0980' 'C2H1040' 'C2H1060' 'C2H1080'
 'C2H1140' 'C2H1160' 'C2H1180' 'C2H1240' 'C2H1260' 'C2H1280' 'C2H1340'
 'C2H1360' 'C2H1380' 'C2H1440' 'C2H1460' 'C2H1480' 'C2H1540' 'C2H1560'
 'C2H1580' 'C2H1640' 'C2H1660' 'C2H1680' 'C2H1740' 'C2H1760' 'C2H1780'
 'C2H1840' 'C2H1860' 'C2H1880' 'C2H1940' 'C2H1960' 'C2H1980' 'GC0-0'
 'GC0-0-01' 'RV0430' 'RV1' 'RV2' 'RV2C0' 'RV0' 'GC0' ]

Stars: 2396

main_sequence: 389
giants: 1907
subgiants: 0
red_giants: 100
red_clump: 0
red_giants - red_clump: 100

Dec: 0
Mag: 18
Mg: 18

N_ext mean: 302.42
```

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( APOGEE_SDSS2_OVERLAP APOGEE_TARGET1 bit 30', 'APOGEE_TARGET1', 30)

APOGEE_TARGET1_bit_30

APOGEE_TARGET1_bit_30 = APOGEE_SDSS2_OVERLAP

Selected because of overlap with SDSS2 survey

Fields: ['RV2' 'RV3' 'RV3-RV' 'RV2' 'RV3RV2' 'RV2']

Stars: 93

main_sequence: 65
giants: 28
subgiants: 0
red_giants: 0
red_clump: 0
red_giants - red_clump: 0

Dec: 0
Mag: 18
Mg: 18

N_ext mean: 1877.54
```

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( STANDARD_LOW APOGEE_TARGET2 bit 2', 'APOGEE_TARGET2', 2)

APOGEE_TARGET2_bit_2

No documentation found

Fields: ['RV0-RV' 'RV1RV2' 'RV2C-RV' 'RV2C0RV0_RV2-RV' 'RV0A0RV0_RV0-RV' 'LA1CRV'
 'RV2' 'RV3' 'RV3-RV' 'RV2' 'RV' 'RV' 'RV' 'RV3-RV' 'RV2' 'RV3RV2' 'RV2']

Stars: 3900

main_sequence: 13
giants: 3887
subgiants: 0
red_giants: 0
red_clump: 0
red_giants - red_clump: 700

Dec: 0
Mag: 18
Mg: 18

N_ext mean: 2657.8
```

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( APOGEE_PN_STANDARD APOGEE_TARGET2 bit 3', 'APOGEE_TARGET2', 3)

APOGEE_TARGET2_bit_3
```

No documentation found

Fields: ['BMAJ0' 'BMIN0' 'BPA0' 'MAA' 'MIA' 'PEA']

Stats: 2

main_sequence: 2
subsequence: 0
subgroupno: 0
nrows: 1
ref_points: 1
ref_points - ref_flag: 1

Dim: 6
dim: 0
dim: 1
dim: 2
dim: 3
dim: 4
dim: 5

n_use max: 317.00

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['APEX06_TELLURIC APEX06_TARGET3 bin 0', 'APEX06_TARGET3', 0]

APEX06_TARGET3_bin_0

No documentation found

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'ANTDY:ANT2' 'ANTDY:ANT3' 'ANTDY:ANT4' 'ANTDY:ANT5' 'ANTDY:ANT6' 'ANTDY:ANT7' 'ANTDY:ANT8' 'ANTDZ:ANT1' 'ANTDZ:ANT2' 'ANTDZ:ANT3' 'ANTDZ:ANT4' 'ANTDZ:ANT5' 'ANTDZ:ANT6' 'ANTDZ:ANT7' 'ANTDZ:ANT8' 'ANTEA:ANT1' 'ANTEA:ANT2' 'ANTEA:ANT3' 'ANTEA:ANT4' 'ANTEA:ANT5' 'ANTEA:ANT6' 'ANTEA:ANT7' 'ANTEA:ANT8' 'ANTEB:ANT1' 'ANTEB:ANT2' 'ANTEB:ANT3' 'ANTEB:ANT4' 'ANTEB:ANT5' 'ANTEB:ANT6' 'ANTEB:ANT7' 'ANTEB:ANT8' 'ANTEC:ANT1' 'ANTEC:ANT2' 'ANTEC:ANT3' 'ANTEC:ANT4' 'ANTEC:ANT5' 'ANTEC:ANT6' 'ANTEC:ANT7' 'ANTEC:ANT8' 'ANTED:ANT1' 'ANTED:ANT2' 'ANTED:ANT3' 'ANTED:ANT4' 'ANTED:ANT5' 'ANTED:ANT6' 'ANTED:ANT7' 'ANTED:ANT8' 'ANTEE:ANT1' 'ANTEE:ANT2' 'ANTEE:ANT3' 'ANTEE:ANT4' 'ANTEE:ANT5' 'ANTEE:ANT6' 'ANTEE:ANT7' 'ANTEE:ANT8' 'ANTEF:ANT1' 'ANTEF:ANT2' 'ANTEF:ANT3' 'ANTEF:ANT4' 'ANTEF:ANT5' 'ANTEF:ANT6' 'ANTEF:ANT7' 'ANTEF:ANT8' 'ANTEG:ANT1' 'ANTEG:ANT2' 'ANTEG:ANT3' 'ANTEG:ANT4' 'ANTEG:ANT5' 'ANTEG:ANT6' 'ANTEG:ANT7' 'ANTEG:ANT8' 'ANTEH:ANT1' 'ANTEH:ANT2' 'ANTEH:ANT3' 'ANTEH:ANT4' 'ANTEH:ANT5' 'ANTEH:ANT6' 'ANTEH:ANT7' 'ANTEH:ANT8' 'ANTEI:ANT1

```
*****************************************************************************
*****************************************************************************
* APOGEE_DATA_DERPS_DR16 APOGEE_TARGETS ALL IF1, 'APOGEE_TARGETS', 1)
*
APOGEE_TARGETS_ALL_IF1
No documentation found

Fields: ['DEREDMAG' 'DELCAMAG' 'DELHAMAG' 'DELGAMAG' 'DELRAMAG' 'DELZAMAG']

Shape: (0)

main_separator: 0
hashoffset: 0
nobjects: 0
ref_index: 0
ref_offset: 0
ref_points: - ref_flag: 0)

Obs: 0
Vis: 0
Ref: 0
Ref: 0
Ref: 0
Ref: 0
Ref: 0

R_ext_max: [1.76]
```

```
*****************************************************************************
*****************************************************************************
* APOGEE_EMBEDDED_CLUSTER_DR16 APOGEE_TARGETS ALL IF2, 'APOGEE_TARGETS', 1)
*
APOGEE_TARGETS_ALL_IF2
No documentation found

Fields: ['FIELD_ID' 'CLUSD_ID' 'RCSD_ID' 'DRCSD_ID' 'DRCSD_R' 'DRCSD_R_C' 'DRCSD_R_E'
 'DRCSD_R_F' 'DCLSD' 'DCLSD_C' 'DCLSD_E' 'DCLSD_F' 'DRCSD_Z']

Shape: (40)

main_separator: 145
hashoffset: 0
nobjects: 200
ref_index: 0
ref_offset: 158
ref_points: - ref_flag: 125

Obs: 0
Vis: 0
Ref: 0
Ref: 0
Ref: 0
Ref: 0
Ref: 0

R_ext_max: [40.3]
```

```
*****************************************************************************
*****************************************************************************
* APOGEE_LANGDON APOGEE_TARGETS ALL IF1, 'APOGEE_TARGETS', 1)
*
APOGEE_TARGETS_ALL_IF1
No documentation found

Fields: ['APOGEE' 'MEDIE' 'MAD_RV' 'VELA_DR' 'ELEA_DR' 'GLEA_DR' 'BLEA_DR'
 'BLEA_DR' 'MEDIE' 'MAD_RV' ]

Shape: (60)

main_separator: 51
hashoffset: 12
nobjects: 200
ref_index: 0
ref_offset: 158
ref_points: - ref_flag: 175

Obs: 0
Vis: 0
Ref: 0
Ref: 0
Ref: 0
Ref: 0
Ref: 0

R_ext_max: [129.89]
```

```
*****************************************************************************
*****************************************************************************
* APOGEE_DRYSDALE_DR16 APOGEE_TARGETS ALL IF1, 'APOGEE_TARGETS', 1)
*
APOGEE_TARGETS_ALL_IF1
No documentation found

Fields: ['DEREDMAG' 'DELMAG']

Shape: ()

main_separator: 2
hashoffset: 0
nobjects: 0
ref_index: 0
ref_offset: 0
ref_points: - ref_flag: 0

Obs: 0
Vis: 0
Ref: 0
Ref: 0
Ref: 0
Ref: 0

*****************************************************************************
*****************************************************************************
* APOGEE_DRYSDALE_ZOOL_DR16APOGEE_TARGETS ALL IF1, 'APOGEE_TARGETS', 1)
*
APOGEE_TARGETS_ALL_IF1
No documentation found

Fields: ['GOOD_RCSID' 'GOOD_RCSID' 'GOOD_RCSID' 'GOOD_RCSID' 'GOOD_DEREDMAG'
 'GOOD_DEREDMAG' 'GOOD_DEREDMAG' 'GOOD_DEREDMAG' 'GOOD_DEREDMAG'
 'GOOD_DEREDMAG' 'GOOD_DEREDMAG' 'GOOD_DEREDMAG' 'GOOD_DEREDMAG'
 'GOOD_DEREDMAG' 'GOOD_DEREDMAG' 'GOOD_DEREDMAG' 'GOOD_DEREDMAG']

Shape: (87)

main_separator: 1448
hashoffset: 0
nobjects: 31
ref_index: 0
ref_offset: 158
ref_points: - ref_flag: 148

Obs: 0
Vis: 0
Ref: 158
Ref: 158
Ref: 158
Ref: 158
Ref: 158

R_ext_max: [90.4]
```

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

I'APOGEE_ACH_CLUSTER_STAR APOGEE_TARGET1 bit 17', 'APOGEE_TARGET1', 17)

APOGEE_TARGET1_b17_17

No documentation found

Plotdim: ['2:2:AND' '12:AND' '13:AND' '15:AND' '16:AND']

Stars: 110

main_sequence: 10
keyspec: 0
keyplate: 0
redjump: 20
redcut: 0.05
red_plate: red_flag: 76

Dec: 24
Gal: 0
Ebmv: 0
Mag: 16
Mu: 0
Ra: 0

N_sim mass: 101.02
```

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

I'APOGEE_RV_MONITOR_SIAM APOGEE_TARGET2 bit 10', 'APOGEE_TARGET2', 10)

APOGEE_TARGET2_b10_10

No documentation found

Plotdim: ['2:SAME' '3:SAME_RV']

Stars: 42

main_sequence: 30
keyspec: 10
keyplate: 0
redjump: 0
redcut: 0.05
red_plate: red_flag: 2

Dec: 0
Gal: 0
Ebmv: 0
Mag: 0
Mu: 0
Ra: 0

N_sim mass: 0.00
```

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

I'APOGEE_RV_MONITOR_KEPLER APOGEE_TARGET2 bit 10', 'APOGEE_TARGET2', 10)

APOGEE_TARGET2_b10_10

No documentation found

Plotdim: [1:RV_MTH:1]

Stars: 1

main_sequence: 114
keyspec: 40
keyplate: 0
redjump: 0
redcut: 0.05
red_plate: red_flag: 1

Dec: 0
Gal: 0
Ebmv: 0
Mag: 0
Mu: 0
Ra: 0

N_sim mass: 0.12
```

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

I'APOGEE_DIS_CALIBRATE APOGEE_TARGET2 bit 20', 'APOGEE_TARGET2', 20)

APOGEE_TARGET2_b20_20

No documentation found

Plotdim: [1:DEMO:1]

Stars: 41

main_sequence: 0
keyspec: 0
keyplate: 0
redjump: 0
redcut: 0.05
red_plate: red_flag: 21

Dec: 0
Gal: 0
Ebmv: 0
Mag: 0
Mu: 0
Ra: 0

N_sim mass: 47.26
```

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

('APOGEE_BULGE_RV_VERIFY APOGEE_TARGET2 bit 21', 'APOGEE_TARGET2', 21)

APOGEE_TARGET2_bit_21

No documentation found

Fields: ['006+00']

Stars: 48

main_sequence: 0
turnoff: 0
subgiants: 0
red_clump: 1
red_giants: 48
red_giants - red_clump: 47

BA: 0
Fd: 0
GKd: 0
GKg: 6
Md: 0
Mg: 42

R_sun max: 49.64
```

```
An exception has occurred, use %tb to see the full traceback.

SystemExit

In [2]:

In [2]:
```