

HARPS-N Guaranteed Time Observations

Rules established in the
Agreement

***“For the exchange of TNG observing
nights for the full access to HARPS-N”***

Rules for the GTO

- Duration of GTO: 80 scheduled nights for five years
- GTO nights uniformly distributed over 12 months
- General TNG allocation rules: proposal and scheduling prior to each observing period
- Possibility to re-negotiate an extension of the GTO with new rules at the end of the program

Rules for the GTO

- Protection of the Scientific Program → Protection of **TARGETS** – not scientific goal
- Target list to be protected will be communicated in the observing proposal
- Members of the HARPS-N collaboration can apply for open time in accordance with standard INAF rules

Rules for the GTO

“The HARPS-N Scientific Team can associate external Collaborators (hereafter just called Collaborators) to integrate new competences, acquire additional resources and form and promote young scientists in the domain”

Primary scientific objective of GTO

Synergy with Kepler

1. Confirming an Earth-twin planet in HZ of a G5V star ($\pm 30\%$)
2. Super-Earths in various orbits to distinguish water-rich and dry planets
3. Transition between Giants and S-E ($\pm 5\%$)

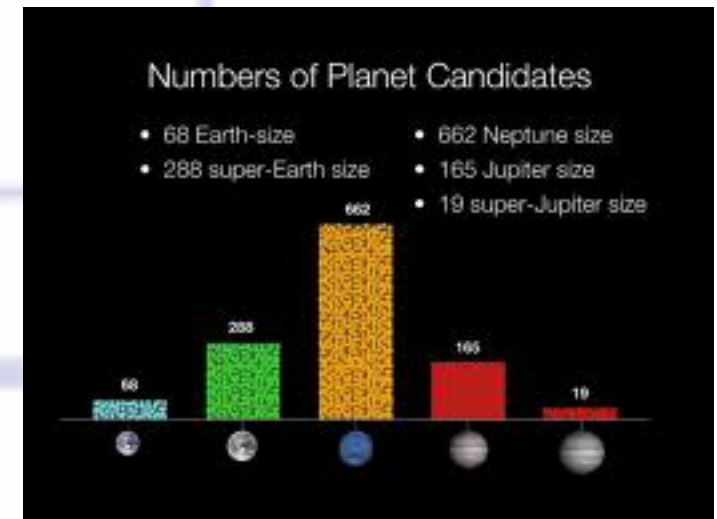


Primary scientific objective of GTO: estimate of exposure times

1. For 2 planets: *16 nights/year for three years*
2. For 20 planets in various orbits: *25 nights/year*
3. For 20 planets in various orbits: *20 nights/year*

***A total of 61 clear nights/year
within seven months
(April – October)***

Padova 27-28 Novembre 2011



Secondary project for GTO

A sample of the brightest, less active and noisy northern sky down to a precision of 20 cm/sec.

→ Earth-like planets and multiple planetary systems

1. Ideal targets for follow up
2. Not very long exposure time for v-rad, but needs to model oscillations, granulation, and rotation induced noise.
3. Form HARPS-S experience → 10-20 nights/year
4. Targets to be selected

SCIENCE TEAM ACTIVITIES

- 14 April 2011: video-con KO
- 16-17 May 2011: meeting in Geneva (rules-status- internal organization)
- 4 Nov 2011: video-con
- 4 Dec 2011: meeting in AMES



Padova 27-28 Novembre 2011

Italian Co-Is activities

- 1st INAF fellowship – Already assigned – starting at Jan-Feb 2011 – (Torino)
- Search for further funding !!!!
- Plan for a 1-day national meeting in Rome (Feb 2012?) preparatory to the next TNG open call