

GROUND-BASED OBSERVATIONS OF COROT SEISMO TARGETS IN DECEMBER 2012 AND JANUARY 2013

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The two last runs performed in the framework of the ESO LP 185.D-0056

December 10 - 20, 2012 10 nights, obs. V. Schmid (Leuven University)

Dec. 31, 2012 - Jan- 5, 2013 5 nights , obs. Marco Scardia (INAF-OA Brera)

Just half night lost for high umidity and another half night lost for technical reasons.

No other complementary observation.

LRa09

NON-SIMULTANEOUS observations CoRoT-HARPS

HD 46375 **7.84** **K0** . Solar-like star with non-transiting planet.

HD 46202 **8.20** **O9V** Beta Cep like star

HD 46149 7.59 08.5V Prot=11 d , Pulsations ??

HD 46223 7.32 O5e Red noise in the CoRoT power spectrum

HD 46150 6.75 O5V Red noise in the CoRoT power spectrum

HD 46769 5.79 B8Ib Observed in SRa03. P=4.9 d. Interesting star suggested by C. Aerts.

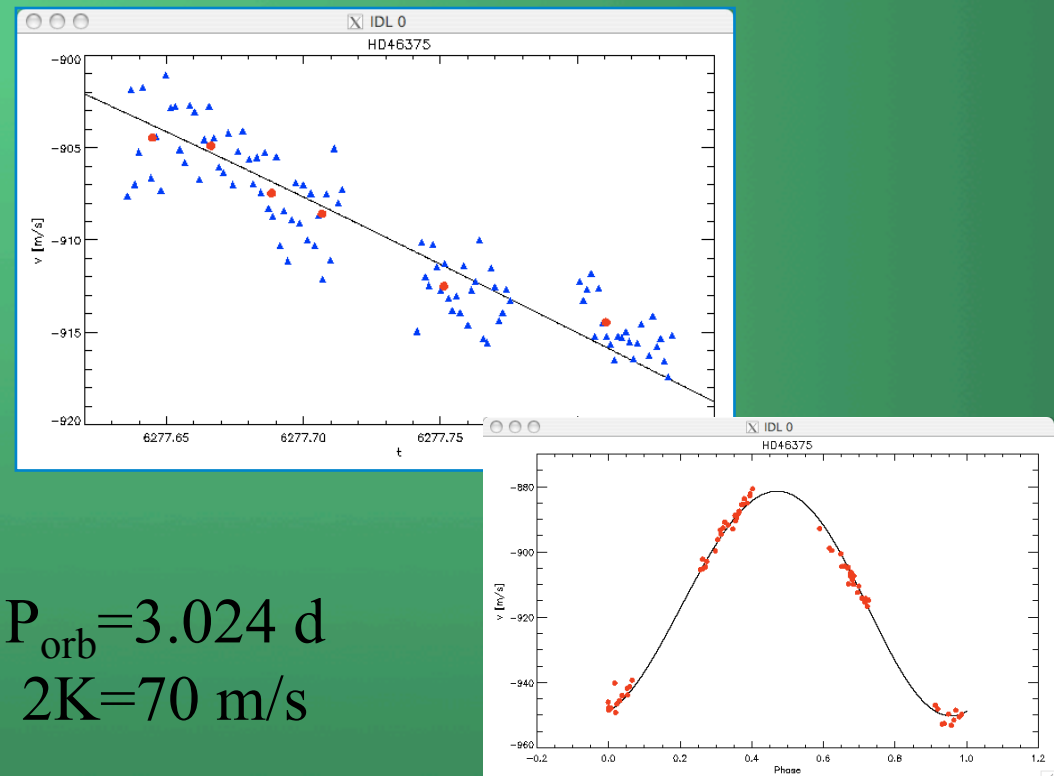
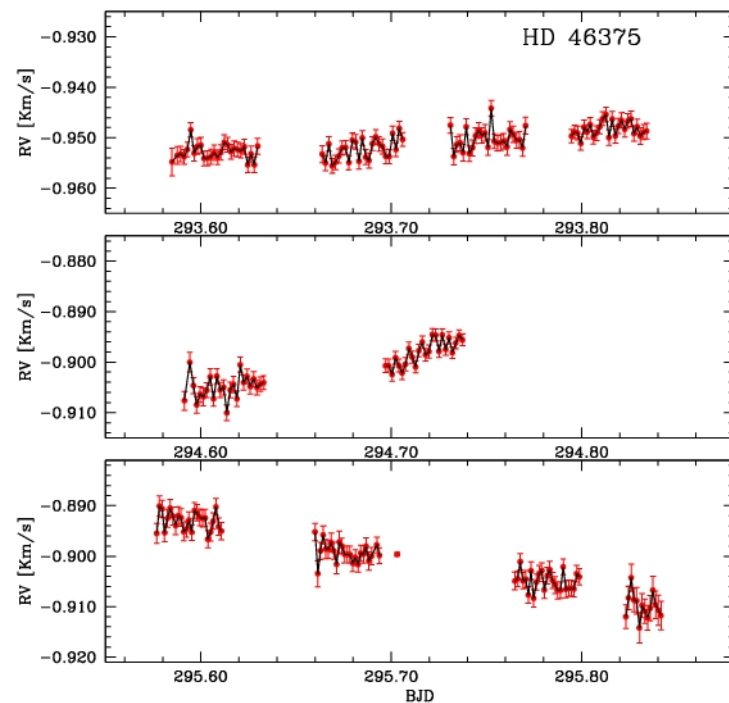
HD 45975 7.46 HgMn LRa08 .Check possible binarity

PLANETARY ORBITS AND ASTEROSEISMOLOGY

HD 46375.

Observed with CoRoT in October 2012,
just before failure.

HARPS@ESO spectra show both solar-like
Oscillations and orbital motion



$$P_{\text{orb}} = 3.024 \text{ d}$$
$$2K = 70 \text{ m/s}$$

New LARGE PROPOSAL submitted to ESO in September 2012
(LP 191-D.0263): *Brightening the scientific return of CoRoT
second-extension asteroseismic programme with spectroscopy*

New OHP proposal (13A_PNPS003; P.I. Ph. Mathias): *Enlightening the
scientific return of CoRoT second-extension asteroseismic programme with
spectroscopy.*

New LONG TERM PROPOSAL submitted to HARPS-N in October 2012:
*Sharpening the scientific return of CoRoT
second-extension asteroseismic programme with spectroscopy*

All these proposals have been rejected, even if the scientific comments of the
TACs have been very positive.