

## CS39 - recent results, papers in prep.(Seismo)

### accepted since last SC38:- ...

- Pappas et al (2 early B stars characterized spectroscopically at the top of Beta Cephei IS, not found pulsating...one rotating fast, one slowly; showing rotation modulation 'spots or chemical inhomogeneity')  
accepted in A&A
- Briquet et al.: a O9V star within NGC2244, observed 34 days showing Beta Cephei pulsations. Comparison with models suggest overshooting ( $\text{dov}=0.1$ ) necessary AND modes theoretically not excited...  
accepted in A&A
- Baudin et al. 'Amplitudes and lifetimes of solar-like oscillations observed with CoRoT – Red Giant vs main seq stars'; Extension to red giants of the work started on MS solar-like intending to compare theoretical vs observed amplitudes and lifetimes of the modes. Based on ~300 red giants from LRC01 ... accepted in A&A
- Ballot et al. : HD52265 : solar-like target with a known planet; very good observational results.  
accepted in A&A

### Submitted ...

- Degroote et al. submitted to A&A: **CoRoT's view on variable B8/9 stars: spot versus pulsations** – discussion of rotational modulation signature and possible differential rotation.

## ...Submitted ...

-Blomme et al submitted to A&A: **Variability in the CoRoT photometry of three hot O-type stars**. ...A substantial number of frequency peaks is listed but none can be convincingly identified as being connected with pulsation however models suggest modes should be excited. The spectrum is dominated by red noise looking of different aspect and origine than oscillations seen on cooler O stars..

-Baudin et al. submitted to A&A: **High mass red giant HD50890**: a G6 Red Giant (seismo field) observed 55days, only  $l=0$  modes visible,  $LS=1.7\mu\text{Hz}$  -> modelling point toward a massive (3-5 $M_{\odot}$ ) red giant clearly above the clump, suggesting phase of ascension of RG branch (age~150My), or later phase of He burning;...best models suggest mixing length parameter value smaller than for the Sun and an amount of overshoot on MS  $\sim 0.2H_p$ .

## In Prep:

Solar-like (Obs): HD169392 (cea+, before summer 11) ---- **HD169556(QMWF+,before summer)**;;----- HD43587(IAS+,...),... ---- **Gizon et al to be submitted...: Asteroseismic constraints on the exoplanetary system HD 52265.**

Solar-like (theo): HD49385 (OP+, before summer);----- **HD49933 (OP+, before summer)**  
Be stars: HD49330,----- **HD 181231**: two theoretical interpretation papers in prep (OP+, summer 2011)