

AsteroFLAG Collaboration
Programme for the 1st ISSI Workshop
Jan 8 – 12 2007, Bern, Switzerland



History: version 1.02 (2006 December 16, WJC)

The aim of the workshop will be to define clearly the practicalities and strategy for the hare-and-hounds exercise; and to bring us all up-to-speed on challenges and key issues for asteroseismology of Sun-like stars. I should add that we hope to have the first sets of hare-and-hounds data ready to circulate early in 2007.

A series of presentations will be the backbone of our workshop programme. These presentations will provide the reference points for open discussion sessions.

I have timetabled something for every morning and afternoon session, apart from the Wednesday afternoon. The free Wednesday afternoon gives us some contingency, a chance for the hares to meet, a chance for members to discuss things informally (or a chance get out and see Bern in the daytime!).

The programme below gives us a structure to work from: but we can of course modify it, if needed, as the week progresses.

Finally, many thanks to those who have agreed to give talks, or chair discussions.

Monday Jan 8

09:30: Arrive at ISSI; sort out internet connectivity for all *etc*

10:30: Welcome and Introduction to the meeting; and aims for the day (W. Chaplin, Birmingham)

Morning

The COROT Hare and Hounds: What was done, and what has been learned?
(T. Appourchaux, IAS/Orsay)

Afternoon

Science from SONG and opportunities with Kepler (H. Kjeldsen, Aarhus)
Open discussion arising from the talks: implications for asteroFLAG (Chair Y. Elsworth, Birmingham)

Tuesday Jan 9

09:30: Aims for the day (W. Chaplin)

Morning

Some comments on asteroseismic inference (W. Chaplin)

Use of seismic data: constraints on stellar parameters (O. Creevey, NCAR/Boulder)

Afternoon

Open discussion: asteroFLAG practicalities (Chair W. Chaplin).

[Issues to be discussed will include the likes of:

- Simulation scenarios: field stars (isolated, detached binaries); open cluster ensemble
- How many targets will we make data for?
- How many instrumental datasets per star?
- Which instruments (e.g., SONG, Kepler, COROT, existing ground-based spectrograph observations)
- What lengths of data (see also above)?
- What is our timetable?
- For the longer sets, where peak-bagging codes will be used by several members of the group, will results of these fitting codes be made available as a pool of results for 'Team 5' analysis?
- ... and more]

Wednesday Jan 10

09:30: Aims for the day (W. Chaplin)

Morning

On the computation of the seismic parameters of the stellar models (G. Houdek, IOA/Cambridge)

A few "general" comments on making the artificial seismic data: inheritance from solarFLAG (W. Chaplin)

Afternoon

There will be nothing formally timetabled for Wednesday afternoon; this will allow time for

- Contingency, extra items, or continuation of earlier discussion;
- Meeting of the hares; a chance for the hares to do some work, and get any information they need from other members of the group;
- A chance for the group to do some work, engage in informal discussion *etc.*;
- A chance to see Bern!

Evening

Workshop dinner

Thursday Jan 11

09:30: Aims for the day (W. Chaplin)

Morning

The mode identification problem (R. García. CEA/Saclay)

Peak bagging for asteroseismology (T. Toutain, Oslo & Birmingham)

Afternoon

Open discussion: asteroFLAG practicalities (Chair R. García)

[This discussion will concentrate on issues regarding practicalities of asteroseismic mode identification and fitting, the capabilities user's fitting codes will need *etc.*]

Friday Jan 12

09:30: Aims for the day (R. New, Sheffield Hallam)

Morning

Continuation of peak-bagging discussion from Thursday afternoon (R. García)

Wrap of the meeting (R. New)