Peak Bagging project

We decided at the Boulder meeting to look at a limited subset of the stars on the list of 107. You are welcome to analyse more but please start with the eleven listed below. I suggest that you send me data in a text file by email (y.p.elsworth@bham.ac.uk) as soon a possible but I set a deadline of the 12th September. I am quite happy to receive preliminary and then updated values. See below for the files naming procedure and information on the name change if you want to update. I would be grateful if any later files contain all the up-to-date information to avoid me having to merge files. Don't just send in the changes please.

The plan is to analyse the following stars.

2448225
2696732
3100193
3730953
3847071
4039306
4736611
4950323
5088362
5385518
5530598

For each star please return a file containing (some of) the information given below. The name of the text file should start with your catBasket ID (eg SYD) then underscore followed by the name of the star and _0.txt. For subsequent uploads where you may change or extend the information provided then change the '0' to '1', '2' etc.

The results from different groups will be distinguished by catBasket ID. If more than one set of data are to be input per catbasket ID then suggest an extra ID to me. However, do note that I am not asking you to upload anything to the CatBasket and the format I suggest does not entirely conform to its language. As stated above, I would like to receive results files by email.

You may provide a range of information and no one item is a requirement. Below I suggest some possibilities and how you should phrase your information.

- If you classify the star as RGB, Red Clump, Secondary Clump or Unclassified.

For example class=RGB

- If you think that there is evidence for rotation then indicate this. Equally you may feel that is definitely no evidence for rotation. (The actual values of rotational splitting are given as individual frequencies). Make no comment if you have no opinion.

For example rotation=no

- Then give whatever frequencies you have using the following format.

Use a header line to indicate what you are providing. This is free- form except that for reasons of easy parsing of the line, do not put spaces into your parameter names. On the next line specify the number of frequencies returned. This is also the number of lines of data that follow. In the example below degree, freq and the error on the frequency are given. It is not a requirement to provide mode ID. Nor are errors required.

For example

ℓ	freq	freq_error
3		
1	70.02	0.05
0	74.11	0.03
1	71.25	0.05

If you have fitted a mode then you may want to return height and width. There is no obvious way of returning rotational splitting other than by giving the individual frequencies.

We should agree on a name for the 'underlying' period spacing. I suggest 'Delta_P_real'

If you wish to indicate the delta_nu you use then please say either local_delta_nu or global_delta_nu

As ever, if you have more questions – just ask.

Regards

Yvonne