

## **solar-stellar variability workshop**

8:30am-5:00 pm Wednesday 19<sup>th</sup> March 2014,  
morning of Thursday 20<sup>th</sup> March

High Altitude Observatory, NCAR,  
3080 Center Green Drive  
Boulder, CO 80301

**Building CG1, Room 3131**

**Invitees:** Caspar Ammann, Tim Brown, Ricky Egeland, Mark Giampapa\*, Jeff Hall, Jerry Harder, Gregory Henry\*, Philip Judge, Christoffer Karoff, Wes Lockwood, Piet Martens, Savita Mathur, Travis Metcalfe, Alexei Pevtsov, Rich Radick\*, Steve Saar, Willie Soon\*, Michael Thompson, Giuliana de Toma

**Locals:** Tom Ayres, Mausumi Dikpati, Juan Fontenla, Sarah Gibson, Greg Kopp, Michael Knoelker, Scott McIntosh, Mark Miesch, Mark Rast\*, Matthias Rempel, Marty Snow

\*Unable to attend, video-conferencing possible

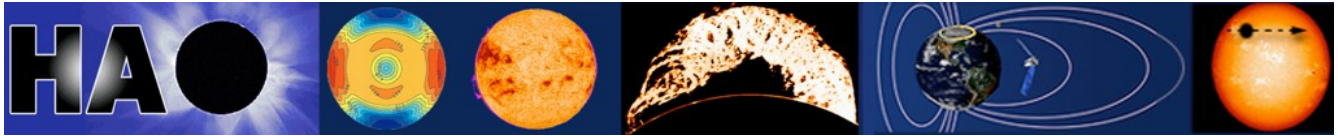
### **PURPOSE:**

Much old and new data now exist that might help answer some essential aspects of the “dynamo problem”: differential rotation and cyclic behavior in sun-like stars. Data are published in bits and pieces, more remain unpublished.

The idea of this meeting is to begin to pool resources to combine data from different instruments including those from the Mt. Wilson epoch (S index) through today (Lowell SSS and Metcalfe S. hemisphere SMARTS survey), with the APT data and Kepler and other relevant and solar datasets.

We will produce a report indicating promising lines of future work. We hope to help to define thesis topics for MSU graduate student Ricky Egeland, among other goals.

**Agenda is on the next page**



## Agenda HAO Solar-Stellar variability workshop 19<sup>th</sup> March 2014

### MORNING OF 19th MARCH

- 8:30 Convene for petit dejeuner
- 8:50 **Philip Judge (HAO)**: Welcome, introductions, and purpose of meeting
- 9:00 **Piet Martens (MSU)**: essential theory
- 9:30 **Steve Saar (CfA)**: essential observations
- 10:00 **Jeff Hall (Lowell)**: Ca II data from Mt. Wilson and Lowell SSS
- 10:30 Break
- 10:45 **Travis Metcalfe (Sp. Sci. Inst)**: SMARTS Ca II data
- 11:00 **Alexei Pevtsov (NSO)**: NSO synoptic data
- 11:30 **Wes Lockwood (Lowell) & Greg Henry (Tenn. St.U.)**: Precision ground-based photometry
- 12:00 **Jerry Harder (CU)**: SORCE spectrophotometry
- 12:15 Lunch at CG1 cafeteria, or Boulder Brewery (started by David Hummer of JILA)

### AFTERNOON

- 1:30 **Christoffer Karoff (Aarhus U.)**: Kepler
- 2:00 **Tim Brown (LCO)**: LCOGT capabilities, stellar spindown with bimodal dynamos
- 2:30-5pm **Open discussion** (contributions welcome)

- 6:30 pm Group dinner at  
*agave* restaurant,  
<http://www.agavecolorado.com/>



### MORNING OF THURSDAY 20<sup>TH</sup> MARCH, Captain Mary Room

- 8:30 am – 12:00 am Continued open discussion, thesis research project(s)