

## **Actions for the ISSI Flare Chromospheres Team**

### **Modest**

#### Reviewing

Collect/review data & literature on Oct 28 03, from a 'chromosphere' viewpoint (LF, HSH, AB)

Investigate possibility of full solar spectrum with existing telescopes (GC, SH)

#### Computational

Get Joel's code and get it running. (AK, JA -> BA in Berkeley, March?)

Compute optically thin emission from Chianti for Abnett code snapshots (FR,JK)

Test energy deposition codes by Karlicky, Joel, LF, check against Emslie code (PH, LF, MK, JK...)

Testing heating efficiencies in the lower atmosphere by e, p, waves, etc – how to get higher temperature low down.... (MD)

#### Data

Complete energy distribution diagram - with Oct 28<sup>th</sup>? (HSH)

Hot dense footpoints from EIS (RM, LF, LF's student)

Microwave study (PH, JK, SH)

Re-investigate Yohkoh WLFs for possible H-gamma contamination (PH, HSH)

Go back to TRACE WL and 1700A data (LF, HSH)

Look at CDS/EIS observations to check for flows in ribbons vs HXR footpoints (RM, GC, LF)

Work on high time-res RHESSI data (HSH, RM)

#### Future Developments/proposals

Herschel Proposal (PH, SH)

Chromospheric flares observing campaign with TRACE, Lya, SOT, EIS, CDS, GBO, RHESSI, Fermi (LF, RM, GC, MD, AB, AK)

ATST VTF Flare usecase (GC, LF)

ROSA Proposal, and solar-stellar comparison (SH, AK, MM+minions)

Propose solar-stellar flares session for Cool Stars 16 (2-3hours, deadline March-ish)

### **Ambitious**

Comparison between RHD codes (Ondrejov & RADYN codes)

'Magnetic Fireball' into RADMHD

Write a paper on October 28<sup>th</sup> 2003

Study post-beam behaviour in codes (Ondrejov & RADYN codes)

Look back at Svestka data...? Neidig data? Consult with Neidig about data?

Lower atmosphere energy deposition via i-n coupling in waves.

Try to reproduce RHESSI/Halpha variations on timescales of few seconds

Try to identify other lines (or continuum) which are more sensitive to non-thermal effects. He 10830, D<sub>3</sub>... and return to Ca and H lines.

Review paper???

Define what is a white-light flare (Flare with elevated blue continuum? Can see it with your eyes? )

LF, 16/01/2010