

ISSI International Working Group on Coronal Cavities

First workshop: Tuesday-Friday January 13-16

TUESDAY: CAVITIES AS MHD EQUILIBRIUM STATES

Morning (start at 9:00 AM):

- **Vittorio Manno: Introduction to ISSI**
- **Sarah:** White-light cavities: quantitative properties, 3D morphology, line-of-sight issues
- **Christophe:** Cavities as observed in radio – at the limb and on the disk
- **Kathy:** XRT cavities and temperature diagnostics

Lunch (12:30 – 14:00)

Afternoon:

- **Don:** EUV temperature and dynamics analysis of (non-erupting) cavities
- **Juan:** XRT cavity survey
- **Yingna:** Magnetic morphology of filament channel, XRT and EUVI
- **Aad:** Coronal flux rope modeling

Break (15:30 – 16:00)

Discussion topics: possible collaborative projects

- Observing the “unobstructed cavity”
 - Planning for and achieving cavity density and temperature diagnostics
 - Overlaying multi-wavelength observations
 - Pattern recognition/cavity identification
 - STEREO reconstruction of cavities
- Comparing, combining, and constraining MHD+thermodynamic models

18:00 – welcome toast from ISSI

WEDNESDAY: CAVITY-ASSOCIATED STRUCTURES

Morning (9:00):

- **Brigitte:** Cavity/prominence relationship “What might we learn about cavities using multi-wavelength observations?”
- **Hugh:** SXR chewy nougats and TRACE filaments (poss. including Okumoto study)
- **Terry K:** Prominence/transition region

Lunch (12:30 – 14:00)

Afternoon: (Group meet at 14:00, again 17:00)

Discuss and begin collaborative projects (e.g. on these and/or yesterday’s subjects)

- How do the different structures relate, spatially, temporally?
- How do observed structural relations constrain magnetic geometry/models?

THURSDAY: CAVITY STABILITY, EVOLUTION, CMEs

Morning (9:00):

- **Sarah/Christophe/??:** Examples of cavities erupting as CMEs and possible indicators of impending eruptions
- **Alphonse:** Early stages of eruptions
- **Mei:** Magnetic helicity

Lunch (12:30 – 14:00)

Afternoon: (Group meet at 14:00, again 17:00)

Discuss and work on collaborative projects (e.g. on these and/or previous days’ subjects)

- Cavity stability: morphology, contrast, height
- Thresholds and triggers for eruption

FRIDAY:

Morning (9:00):

Discuss future plans

- ***Dates of next meeting(s)***
- ***Goals to achieve by next meeting***
- ***Group review paper***

Lunch (12:30 – 14:00)

Afternoon: (Group meet at 14:00, again 17:00)

Work on collaborative projects