



LUVOIR WEEKLY TELECON

Starts at 2:00 PM eastern

**STDT members, call the phone line to
listen / speak.**

Then mute your computer speakers.

Agenda & notes

◎ Updates from Working Groups

- COR: call for “awesomeness vs. aperture” info
- EXO: finishing up docs that are ~ 85% done. Collecting transit science case, telecon to discuss wavelength range for coronagraph next week. Need argument / requirements for EXO astrometry & RV.
- Solar System: couple of WG telecons to further develop science cases. 5 sub-groups in SS, working to identify top priorities to constrain instrument requirements. LUVVOIR poster at DPS + hour-long town hall (likely on Tues) – yay!

Agenda & notes

- Technology: looking for tech drivers / concerns related to aperture size. Gearing up on tech needs for instrument studies. Collecting pretty pictures of hardware & testbeds. Funded work at JPL to look at stability, wavefront sensing, error budgets for high-contrast, active optics, ...
- Simulations: ~ 6 tools by Jan AAS meeting. 3 existing tools roughly correspond to instruments (photometry -> WF imager, UV spectrograph tool needs modes to match LUMOS, coronagraph exoplanet spectra tool). Solar System spectral simulator available (from Geronimo).

Agenda & notes

⦿ Updates from Instrument Teams

- LUMOS (UV instrument): few telecons, basic instrument specifications set (w/ target & stretch goals). First-draft of ODL input sheet filled out. Sensitivity requirements for some of the science cases in hand.
- O/NIR spectrograph: filling science gaps. Template matching technique – paper on simulations to be submitted, seminar on it on Oct 26). Need to fiber feed planet light from coronagraph to high-res. spectrograph. Tentative wavelength range: red end of UV instrument out to $\sim 5 \mu\text{m}$ (not background limited longer than $\sim 2 \mu\text{m}$).

Agenda & notes

- High Definition Imager: Nominal wave range 300 nm – 1.7 μm , stretch 200 nm – 2 μm . FOV 4 – 8 arcmin. Diffraction limited at 500 nm. Two detectors = two channels. Need performance goals for astrometry.
- ◉ New WG: Communications
 - Lead(s): Debra Fischer, Shawn D-G
 - Outreach to peers (colloquia), stakeholders, public, potential industry collaborators, international
 - Participants: Brad, O'Meara, Postman, Aki
 - See Communication folder in the LUVOIR Google Drive (spreadsheets for conferences & colloquia, preliminary slidedeck).