

Astro 2020



Decadal Survey on Astronomy and Astrophysics

Working group on
OIR and radio
interference

*The National
Academies of*

SCIENCES
ENGINEERING
MEDICINE

nas.edu/astro2020

Goals

- Goal of the cross-panel working group is to report on radio and optical interference from ground and space sources
- Panel will report to the Steering Committee to propose content for the final report
- Currently in a fact-finding phase and working to understand the landscape of interested groups

Astro2020 Working Group on OIR and Radio interference

- Cross-panel subgroup to explore issues of RFI and OIR light pollution
- Bruce Macintosh (Stanford, WG chair, Steering Committee)
- Jean Turner (UCLA, Steering Committee)
- Pieter van Dokkum (Yale, Steering Committee)
- Lynn Matthews (MIT Haystack, RMS panel)
- Andrew Baker (Rutgers, RMS panel)
- Steve Kahn (Stanford, EOS2 panel)
- Amy Mainzer (Stanford, EOS1 panel)
- Richard Pogge (OSU, OIR ground panel)
- Scott Ransom (NRAO, Compact Objects panel)

Goals and format for this meeting

- This first meeting is focused on optical interference from satellite constellations
- A future meeting will discuss radio-frequency interference
- Questions from ASTRO2020 members will be taken first after each presentation and in the discussion section
- Time permitting, selected relevant questions from the broader audience may be accepted at the end of the meeting – type questions into the chat and the moderator will relay them
- This is a fact-finding process - please be respectful of everyone involved in this discussion!
- Additional questions or concerns can be sent to the Astro2020
- **Please be respectful and focused**

Agenda

8:00 AM / 11:00 AM	Introduction	Bruce Macintosh
8:15 AM / 11:15 AM	Satellite visibility and brightness	Patrick Seitzer, University of Michigan
8:45 AM / 11:45 AM	Impact on the Vera Rubin Observatory	Tony Tyson, UC Davis
9:15 AM / 12:15 PM	AAS perspective and other groups	Joel Parriott, AAS
9:30 AM / 12:30 PM	Break	
9:45 AM / 12:45 PM	SpaceX Perspective	Elon Musk Jared Greene, Patricia Cooper, Michael Sholl
10:30 AM / 1:30 PM	Discussion and wrapup	Bruce Macintosh (moderator)