

Key Non-Polar Destinations Across the Moon to Address Decadal-level Science Objectives with Human Explorers: Panel on Heliophysics, Physics, and Physical Science Meeting No. 2

July 28-29, 2025

Hybrid Meeting

Beckman Center, 100 Academy Wy, Irvine, CA

ALL TIMES IN US PACIFIC DAYLIGHT TIME (UTC-7:00)

MONDAY, JULY 28, 2025

OPEN SESSION

Livestream: <https://vimeo.com/event/5249251>

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| 9:45 AM | Solar Synoptic Observations from the Moon
(30-minute presentation) | Dr. Alexei Pevtsov
Assoc. Director, National Solar Observatory |
| 10:15 AM | Mapping the Magnetosphere with Energetic Atoms
(30-minute presentation) | Dr. Amy Keesee*
Assoc. Professor, University of New Hampshire |
| 10:45 AM | <i>Break (15 minutes)</i> | |
| 11:00 AM | Extreme Ultraviolet Imaging of the Plasmasphere
and Its Partner Populations
(30-minute presentation) | Dr. Jerry Goldstein
Institute Scientist, Southwest Research Institute |
| 11:30 AM | Measuring Synchrotron Emission from the
Radiation Belts with a Lunar Near Side Radio Array
(20-minute presentation) | Dr. Alex Hegedus*
Affiliate Research Scientist,
Space Science Institute |
| 11:50 AM | <i>Working Lunch for Members, Speakers, and Invited Guests</i> | |
| 1:00 PM | Panel Discussion: Space Weather Observatory on the Lunar Surface
(60-minute discussion)
Panelists:
Dr. Alexei Pevtsov
Dr. Amy Keesee*
Dr. Jerry Goldstein
Dr. Alex Hegedus* | |
| 2:00 PM | <i>Break into Closed Session</i> | |

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TUESDAY, JULY 29, 2025

OPEN SESSION

Livestream: <https://vimeo.com/event/5249255>

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| 10:45 AM | Science Cases for Optical Interferometry from the Moon
(25-minute presentation and 20-minute discussion) | Dr. Gerard van Belle
Director of Science, Lowell Observatory |
| 11:30 AM | <i>Working Lunch for Members, Speakers, and Invited Guests</i> | |
| 12:30 PM | Science Cases for a Lunar Far Side Radio Array
(30-minute presentation) | Dr. Jonathan Pober*
Assoc. Professor, Brown University |
| 1:00 PM | Lunar Crater Radio Telescope
on the Far Side of the Moon
(30-minute presentation) | Dr. Saptarshi Bandyopadhyay
Robotics Technologist, Jet Propulsion Lab. |
| 1:30 PM | Pathfinders for a Radio Telescope on the
Far Side of the Moon
(30-minute presentation) | Dr. Anže Slosar
Distinguished Scientist, Brookhaven
National Laboratory |
| 2:00 PM | Panel Discussion: Science Opportunities for a Lunar Far Side Radio Telescope
(45-minute discussion)
Panelists:
Dr. Jonathan Pober*
Dr. Saptarshi Bandyopadhyay
Dr. Anže Slosar | |
| 2:45 PM | <i>Adjourn to Closed Session</i> | |

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IMPORTANT NOTES

Presenters:

- Please do not include unpublished data, ITAR-controlled or sensitive information in your presentation.
- A National Academies Board staff member will ask you to sign a form before the meeting allowing us permission to use your likeness and presentation for our livestream video, which will be posted on our Board website after the meeting. Please get in touch with us before the meeting if you have any concerns about this usage.

Members and Presenters:

- Remote access will be provided through Zoom. This will allow you to participate in the meeting even if you can't be physically present.
- Please note that Zoom allows audio and any materials exchanged or viewed during the session to be recorded and shared.
- By participating in this activity, you agree to let your voice, likeness, and any materials you provide be recorded for use and dissemination. This includes any language, format, or media now known or later devised.
- You release the National Academies of Sciences, Engineering, and Medicine from any and all claims, liability, or damages arising from any such use. If you disagree, please do not join the session.

Members of the General Public:

- Remote access will be provided through a live stream on Vimeo. This will also be publicly available and posted on the Board website. You do not need to register.

Thank you all for your cooperation, and we look forward to a successful meeting.