**New Horizons Science Team Meeting #56 (Agenda v6)**

14-16 May 2024, APL and Virtual

All listed times are Eastern Daylight Savings Time (UTC-4h)

Johns Hopkins APL

Building 200 Room E100



**All Participants Must Register:** <https://forms.gle/mY6SyySGfRgvg9WE9>

**Meeting Website:** <https://pluto.jhuapl.edu/News-Center/Events/STM56/index.php>

**Wednesday, 15 May– Open for all Registered Participants**

**Room**: E100, Building 200, APL

**Zoom Link**: <https://jhuapl.zoomgov.com/j/1618116212?pwd=bWM4ZFJyTFpuY1FrUmwyV3l4clBadz09>

|  |  |  |
| --- | --- | --- |
| **08:00** | **Coffee, Tea, Snacks** |  |
| **08:25** | Welcome to Open Meeting | Pontus Brandt |
| **Workshop 1: Astrophysics** | **Chair: Tod Lauer** |
| **08:30** | The New Horizons Cosmic Ultraviolet Background Survey | Jayant Murthy |
| **09:00** | The New Horizons Survey of the Cosmic Optical Background | Marc Postman |
| **09:30** | The New Horizons Lyman-Alpha All-Sky Map (Astro + Helio) | Randy Gladstone |
| **10:00** | **Break and Team Photo. Wear your Team Shirts!** | **All** |
| **Workshop 2: The Potentially Extended Kuiper Belt** | **Chair: Susan Benecchi** |
| **10:30** | Candidate Distant Trans-Neptunian Objects Detected by the Subaru KBO Survey | Wes Fraser |
| **10:50** | Structures Beyond the Kuiper Cliff | Raul and Carlos de la Fuente Marcos |
| **11:10** | CHIMERA Occultation Constraints on the Abundance of km-Scale KBOs | Qicheng Zhang |
| **11:30** | KBO Occultations using the Weizmann Fast Astronomical Survey Telescope | Guy Nir |
| **11:50** | TAOS Update | Matt Lehner |
| **12:10** | **Lunch (on your own)** | **All** |
| **Workshop 3: Termination Shock Planning** | **Chair: Andrew Poppe** |
| **13:30** | Physics of the Termination Shock and What Might be Observable by New Horizons | Gary Zank |
| **14:00** | A termination shock crossing unlike voyager 1 & 2 | Erick Powell |
| **14:20** | SWAP Measurements on Approach and During Termination Shock Crossing | Heather Elliott |
| **14:50** | PEPSSI Measurements on Approach and During Termination Shock Crossing | Matt Hill |
| **15:20** | Discussion | Andrew Poppe |
| **15:30** | **Break and Cake** | **All** |
| **New Results** | **Chair: Elena Provornikova** |
| **15:50** | JWST Charon spectra | Silvia Protopapa |
| **16:15** | Lyman-Alpha Emissions from the Heliospheric Boundary | Eric Quemerais |
| **16:40** | Consequences of multi-species streaming instability | Wladimir Lyra |
| **17:05** | **Summary Discussions** | **All** |
| **17:30** | **Adjourn**  | **Pontus Brandt** |