

The 4th DESTINY⁺ Science Working Team (SWT) Meeting

Date: Thursday, February 29, 2024

Time: 10:10–17:00 (Japan Standard Time: UTC+9)

Venue: Tokyo Skytree Town® Campus of CIT & Online through Zoom (held in hybrid format)

<Feb 29> All talks are 20 min including 5 min Q&A

10:00 Opening

10:10-10:15 Opening remark, Logistics: T. Arai

10:15-11:15 Project status

- Overall and system development status: T. Takashima, H. Toyota (ISAS/JAXA)
- Trajectory design of DESTINY⁺: Toward Phaethon and multiple asteroids: N. Ozaki (ISAS/JAXA)
- Science mission and science team-activity status: T. Arai (PERC/ChiTech)

11:20-12:40 Ground Observation of Phaethon

- JWST observation of Phaethon (invited talk): A. Rivikin (Johns Hopkins Univ.), C. A. Thomas (Northern Arizona Univ.)
- Shape model of 3200 Phaethon from radar, occultation, and light-curve observations: S. Marshall (Univ. of Central Florida)
- Yarkovsky and YOPR effect simulation on 3200 Phaethon: H. Senshu (PERC/ChiTech)
- Current understanding and future observation plan of Phaethon: F. Yoshida (Univ. of Occupational & Environmental Health, PERC/ChiTech)

12:40-14:10 Group photo & Lunch

14:10-14:50 TCAP & MCAP

- TCAP & MCAP development status: K. Ishibashi (PERC/ChiTech)
- Camera science status: T. Morota (The University of Tokyo)

14:55-16:35 DDA

- DDA development status: J. Simolka, R. Srama (Univ. of Stuttgart)
- Status report on ground calibration of DDA: M. Tieloff (Univ. of Heidelberg)
- Particle swarms in near-Earth space - Science opportunities for DDA: M. Sommer (Univ. of Stuttgart)
- Modeling the interstellar dust detection conditions with the DESTINY⁺ Dust Analyzer: H. Krüger (MPS)
- Predictions for dust densities at possible target asteroids: J. Schmidt (FU Berlin)

16:40-17:00

- Discussion for future topics (All)
- Future SWT meetings
- Concluding remarks

17:00 Adjourn