

The 5th DESTINY+ Science Working Team (SWT) Meeting

Date: Monday, February 24, 2025

Time: 10:00–17:40 (Japan Standard Time: UTC+9)

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

<Feb 24> All talks are 20 min including 5 min Q&A [*: online]

10:00 Venue open

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

10:15-11:35 Project status [Chair: M. Kobayashi]

- Overall and system development status: 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)
- Status of the DESTINY+ science management plan: K. Wada (PERC/ChiTech)

11:35-12:35 Modeling of Phaethon & OSIRIS-APEX [Chair: K. Ishibashi]

- 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)
- The latest status of OSIRIS-APEX: M. C. Nolan (Univ. of Arizona)*

12:35-14:00 Group photo & Lunch

14:00-15:00 DDA [Chair: T. Hirai]

- DDA status update & DDA functional test: H. Strack, R. Srama (Univ. of Stuttgart)
- Predictions for dust densities at possible target asteroids: J. Schmidt (FU Berlin)*
- Status report on ground calibration of DDA: M. Tieloff (Univ. of Heidelberg)*

15:00-16:00 Ground-based observation of Phaethon [Chair: H. Kimura]

- Observations of Phaethon and Pallas family members using TTT: E. Tatsumi (JAXA)*
- Current understanding and future observation plan of Phaethon: F. Yoshida (Univ. of Occupational & Environmental Health, PERC/ChiTech)*
- Ground-based spectral characterization of Phaethon in support of DESTINY+ mission: S. Ieva (INAF - OAR)*

16:00-17:20 TCAP+MCAP & Science proposals [Chair: T. Okamoto]

- TCAP & MCAP development status: K. Ishibashi (PERC/ChiTech)
- Camera science status: T. Morota (Univ. of Tokyo)*
- Thermal processing of meteorites in support to MCAP observation @ Phaethon: E. Palomba (IAPS - INAF)* [no-show]
- Experimental support for DESTINY+ science: Cyclic heating of Phaethon analogues and measurements by impact ionisation mass spectrometry: M. Suttle (Open Univ.)*

17:20-17:40 Other issues [Chair: T. Arai]

- Discussion for future topics: All
- Future SWT meetings
- Concluding remarks

17:40 Adjourn