

Comet Interceptor Science Working Team Meeting #5

ESTEC, 13-14 November 2024

Room: Escape building, Tennis hall (exceptions mentioned)

13 November 2024

Working Group Meetings:

09:30 Comet Environment Working Group (Escape building, Tennis hall)

Science Operations Working Group (room NA 115)

11:15 Coffee Break

11:30 Target Identification Working Group

13:15 Lunch

Open SWT Meeting (Part 1):

14:15 Welcome, Introduction (M. Küppers, H. Kawakita)

14:25 ESA Project Update (N. Rando)

14:45 JAXA Project Update (R. Funase)

15:00 Instrument Lead Scientist update (emphasis on science aspects, Instrument Lead Scientists, 10 min per instrument, 20 min for DFP)

- Science activities within the instrument team
- Calibration aspects (synthesis of needs, approach, planning)

Coffee break within the block

17:00 Report from the CISDC (M. Albrecht-Marc and colleagues)

17:20 The Planetary Science Archive and archiving for Comet Interceptor (M. Bentley)

17:40 Adjourn

14 November 2024

Open SWT Meeting (Part 2)

09:30 Reports from WGs (WG chairs, 15 minutes each)

10:15 New potential backup targets - Mission Analysis (J. M. Sanchez Perez)

10:30 Backup targets: Proposal from TIWG (C. Snodgrass) + discussion

11:00 Coffee break

Science Session

11:20 Toward Interstellar Objects for CI: from population modelling to discovery surveys
(M. Bannister)

11:35 Cometary collisions (E. Martellato)

11:50 Early thermal processing of comets in relation to the giant planet instability
(A. Guilbert-Lepoutre)

12:05 Production of water from a comet - laboratory experiments (K. Kossacki)

12:20 67P's complex activity from thermophysical modelling and dynamics (N. Attree)

12:35 Maximum dust-to-gas mass flux ratio in spherically expanding dusty-gas flow
(V. Zakharov)

12:50 Assessing the range of cometary dust phase function and degree of linear
polarization curves at the IAA-CODULAB (F. García Izquierdo)

13:05 A COMet dust TAIL Simulator (COMTAILS) : Application to C/2023 A3 Tsuchinshan-
ATLAS (F. Moreno)

13:20 A new model for the diamagnetic cavity (C. Goetz)

13:35 AOB, next meeting

13:45 End of Open SWT Meeting, lunch

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14:30 Meeting of the SWT Executive (Erasmus Building, Room NC 321)

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15:30 End of Meeting