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First meeting of the ISSI - ISSI Beijing International Team “Timing and Processes of Planetary Formation and Evolution”

March 20th – 23rd

Agenda

Note: All times specified correspond to CET (UTC+01:00)

Monday, 20th March 2022

- 9:00 – Welcome (M. Sargent, ISSI Bern, Switzerland)
Project presentation (W. Neumann, TU Berlin, Germany)
- 9:30 – Nucleosynthetic anomalies identified in planetary materials and implication for planet formation (M. Schönbachler, ETH Zürich, Switzerland)

10:30 – Coffee Break

- 11:00 – Early chronology of planetary materials (A. Bouvier, Bayreuth University, Germany)
- 11:45 – Cosmochemical constraints on the formation and evolution of hydrous asteroids (W. Fujiya, Ibaraki University, Japan, *remote talk*)

12:30 – Lunch

- 14:00 – Isotope chronology and cosmochemistry using the Heidelberg CAMECA 1280 HR ion probe (M. Tieloff, Heidelberg University, Germany)

15:30 – Coffee Break

- 16:00 – Discussion: Cosmochemical constraints on the accretion time and internal processes in meteorite parent bodies

17:00 – End of Session, Welcome Drink (ISSI Bern)

Tuesday, 21st March 2022

- 9:30 – Accretion and impact modeling (M.-H. Zhu, Macau University of Science and Technology, China)

10:30 – Coffee Break

- 11:00 – Can we find Icy NEOs? L.-L. Yu (Macau University of Science and Technology, China, *remote talk*)
- 11:45 – Phaethon thermal modeling (M. Delbo, Observatoire de la Côte d’Azur, France)

12:30 – Lunch

- 14:00 – Modelling of the thermal evolution of meteorite parent bodies: Temporally distributed accretion in the C reservoir of the early solar system (W. Neumann, TU Berlin, Germany)

15:30 – Coffee Break

- 16:00 – Discussion: Numerical modeling, issues, difficulties, open questions

17:30 – End of Session

Wednesday, 22nd March 2022

- 9:30 – Chemical characterization of Hayabusa2 returned samples (H. Yurimoto, Hokkaido University, Japan).

10:30 – Coffee Break

- 11:00 – Highly siderophile and volatile elements in CY chondrites: implications on the formation of their parent body (C. Deligny, Stockholm University, Sweden)
- 11:45 – Effects of different models of impact history on petrologies of lunar and planetary samples (W. Hartmann, PSI, Tucson, USA, *remote or postponed to a later teleconference*)

12:30 – Lunch

- 14:00 – Discussion: Earliest primitive parent body material and parent body processes

15:30 – Coffee Break

- 16:00 – Discussion, ideas/draft for the first paper

17:30 – End of Session

Thursday, 23rd March 2022

- 9:30 – Remote sensing/telescopic observations and spectral analyses (D. Takir, NASA Johnson Space Center, Houston, USA)

10:30 – Coffee Break

- 11:00 – Missions to small bodies, geodesy and outlook (J. Oberst, TU Berlin, Germany)
- 11:45 – Discussion: Ideas/draft for the first paper (continued)

12:30 – Lunch

- 14:00 – Discussion: Definition of work packages (continued)

15:30 – Coffee Break

- 16:00 – Discussion: Definition of work packages (continued)

17:30 – End of Session

Participants in attendance

Audrey Bouvier

Marco Delbo

Cécile Deligny

Wladimir Neumann

Jürgen Oberst

Maria Schönbacher

Driss Takir

Mario Trieloff

Hisayoshi Yurimoto

Meng-Hua Zhu

Participants with remote access:

Wataru Fujiya

William K. Hartmann (?)

Liang-Liang Yu