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# Second meeting of the ISSI - ISSI Beijing International Team "Timing and Processes of Planetesimal Formation and Evolution"

March 4<sup>th</sup> – 8<sup>th</sup>, 2024

# Agenda

**Note:** All times specified correspond to Beijing, China (GMT+8)

**Meeting format:** Hybrid, involving both in-person and remote participants and requiring online connection during the entire meeting for remote presentations and discussions with online participants from Europe, Japan, and United States.

### Monday, 4th March 2024

- 10:00 Welcome to on-site participants (W. Neumann, TU Berlin, Germany)
- 10:30 The short-lived <sup>107</sup>Pd-<sup>107</sup>Ag chronometer dating impacts and core crystallisation with iron meteorites (M. Schönbächler, ETH Zürich, Switzerland)

#### 11:30 - Lunch

- 13:00 Welcome to online participants
- 13:30 CY chondrite characterisation and recent achondrite lab work (A. Bouvier, Bayreuth University, Germany)

#### 14:30 - Coffee Break

- 15:00 Carbonate record of aqueous alteration in water-rich planetesimals (W. Fujiya, Ibaraki University, Japan, remote talk)
- 16:15 Discussion or splinter meeting: Lab analysis of extra-terrestrial samples

#### 17:00 - End of Session

# Tuesday, 5<sup>th</sup> March 2024

• 10:00 – Dating the giant planet orbital instability in our solar system with enstatite meteorites (M. Delbo, Observatoire de la Côte d'Azur, France)

11:30 - Lunch

• 13:00 – Thermal evolution model fits: Ryugu, CI chondrites, (2) Pallas, EC 002, and angrites (W. Neumann, TU Berlin, Germany)

14:30 - Coffee Break

- 15:00 Radioisotopic dating of impact craters: constraining the collisional history of planetary bodies (M. Trieloff, Heidelberg University, Germany, remote talk)
- 16:00 Discussion: Cosmochemical constraints on the accretion time and internal processes in parent bodies (focus on Ryugu, CI, Tagish Lake, CM, and CY samples)
- 16:30 Discussion or splinter meeting: Thermal evolution of meteorite parent bodies and the evolution of the asteroid belt (Delbo, Neumann, Trieloff, ...)

17:30 - End of Session

Tuesday night: Welcome reception at the hotel

#### Wednesday, 6th March 2024

• 10:00 – Probe the regolith characteristics of asteroids from multi-epoch thermal light curves (L.-L. Yu, Nanjing University, Suzhou, China)

11:30 - Coffee Break

 12:00 — Early Bombardments of the Moon (M.-H. Zhu, Macau University of Science and Technology, China)

13:00 - End of Session due to the Joint NAOC/ISSI-BJ Colloquium at NAOC at 14:30

# Thursday, 7th March 2024

 10:00 – Origin of Bennu and its connection to the new Polana family (D. Takir, NASA Johnson Space Center, Houston, USA, remote talk)

11:30 - Lunch

• 13:00 – Thermophysical modeling for understanding cometary activity: applications to the Rosetta data of comet 67P (X. Shi, Shanghai Observatory, China)

14:00 - Coffee Break

14:30 – Missions to small bodies (M. Kueppers, ESA, Spain, remote talk)

15:30 - Coffee Break

- 16:00 Lab work on Lunar samples (C. Deligny, Swedish Museum of Natural History, Stockholm, Sweden, remote talk)
- 16:30 Discussion or splinter meeting: Inclusion of the team work in ongoing and planned space missions

17:30 - End of Session

# Friday, 8th March 2024

• 10:00 – Optional: Discussion or splinter meeting: Collisional evolution of the Moon

11:30 - Lunch

• 13:00 – Splinter Meeting: Angrite lab work and modeling (Bouvier, Neumann, Trieloff, ...)

14:30 - Coffee Break

• 15:00 – Optional discussion: Open questions, work packages, publications

16:00 - End of Meeting

# **Participants**

# Participants in attendance

**Audrey Bouvier** 

Marco Delbo

Wladimir Neumann

Maria Schönbächler

Xian Shi

Liang-Liang Yu

Meng-Hua Zhu.

# Participants with remote access

Chrysa Avdellidou

Cécile Deligny

Wataru Fujiya

William K. Hartmann

Michael Kueppers

Jürgen Oberst

**Driss Takir** 

Mario Trieloff

Hisayoshi Yurimoto.