



Bern, Switzerland - www.issibern.ch

Beijing, China - www.issibj.ac.cn

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

March 3<sup>th</sup> – 6<sup>th</sup>, 2025

## Agenda

**Note:** All times specified correspond to Bern, Switzerland (GMT+1)

**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, China, Japan, and United States.

#### Monday, 3<sup>rd</sup> March 2025

- 10:00 Welcome to participants (W. Neumann, TU Berlin, Germany)
- 10:30 Close encounters within the Sun's stellar cluster as trigger for the LHB and other episodic bombardments of terrestrial planets (M. Trieloff, Heidelberg University, Germany, *remote talk*)

11:30 – Lunch

• 13:00 – Nucleosynthetic fingerprints of solar system materials (M. Schönbächler, ETH Zürich, Switzerland)

14:30 - Coffee Break

- 15:00 Shock effects in angrites and consequences on chronological records (A. Bouvier, Bayreuth University, Germany)
- 16:00 Potential chronological disturbance of the D'Orbigny angrite Inferred from discordant <sup>26</sup>Al ages (C. Deligny, Swedish Museum of Natural History, Stockholm, Sweden)

17:30 – End of Session.

## Tuesday, 4<sup>th</sup> March 2025

• 10:00 – The timing and conditions of aqueous alteration in Ryugu (W. Fujiya, Ibaraki University, Japan)

11:30 - Lunch

 13:00 – Carbonates in Ryugu and Bennu: Implications for aqueous alteration in outer Solar System (Max Mahlke, Besancon, France)

14:30 – Coffee Break

- 15:00 Differentiation in the main belt (M. Delbo, Observatoire de la Côte d'Azur, France, remote talk)
- 16:00 Fragmentation and reassembly of planetesimals in the early Solar System (Jialong Ren, Hong Kong Polytechnic University, China)

17:30 - End of Session.

#### Wednesday, 5<sup>th</sup> March 2025

- 10:00 Reconstructing the History of the Solar System: Using Astronomical Observations, Laboratory Analyses, and Theories (D. Takir, NASA Johnson Space Center, Houston, USA)
- 11:30 Coffee Break
  - 11:30 New differentiated asteroid family (Chrysa Avdellidou, University of Leicester, United Kingdom, *remote talk*)
- 13:00 End of Session, time for sightseeing.

#### Thursday, 6<sup>th</sup> March 2025

- 10:00 Al-based thermophysical modelling for small solar system bodies (X. Shi, Shanghai Observatory, China)
- 11:00 Low speed impacts into regolith (video by W. Hartmann, Planetary Science Institute, Tucson).

11:30 – Lunch

13:00 – Missions to small bodies: Update on Hera and RAMSES (M. Kueppers, ESA, Spain, remote talk)

14:00 – Coffee Break

• 14:30 – SPHEREx for the Solar System: Minor body characterisation beyond 2.5 micron (Max Mahlke, Besancon, France)

15:30 - Coffee Break

• 16:00 – Discussion: Planning of publications, joint studies, joint scientific proposals, potential follow-up meeting; wrap-up.

17:30 – End of Meeting.

# Participants

## Participants in attendance

- Audrey Bouvier
- Cécile Deligny
- Wataru Fujiya
- Max Mahlke
- Wladimir Neumann
- Jialong Ren
- Maria Schönbächler
- Xian Shi
- Driss Takir
- Hisayoshi Yurimoto.

## Participants with remote access

- Chrysa Avdellidou
- Marco Delbo
- William K. Hartmann
- Michael Kueppers
- Jürgen Oberst
- Mario Trieloff
- Bo Wu
- Liang-Liang Yu
- Meng-Hua Zhu.