

# Workshop on Interiors of planetesimals and terrestrial planets

**Date:** Nov. 28 (Tue) 2023

**Venue:** Room 23, Faculty of Science, Okayama University

## Programme

13:30-13:35 Preface

### **Part 1. Interiors of terrestrial planets**

- 13:35-14:05 T. Komabayashi (The University of Edinburgh)  
Chemical thermodynamics of Earth's core materials under high pressure
- 14:05-14:35 Y. Nagaya (Tokyo Institute of Technology)  
Inelastic X-ray Scattering measurements for solid iron under high pressure and temperature conditions using internally-resistance heated diamond anvil cell
- 14:35-14:55 M. Sakurai (Okayama University)  
In-situ high-pressure IR experiments of hydrous forsterite
- 14:55-15:10 Break

### **Part 2. Interiors of planetesimals**

- 15:10-15:40 G.D. Bromiley (The University of Edinburgh)  
Core formation in planetesimals: the importance of immiscibility in iron-rich liquids
- 15:40-16:10 S. Urakawa (Okayama University)  
TBA
- 16:10-16:30 S. Matsubara (Okayama University)  
Wetting property of Fe-S melt in solid core: Implication to core crystallization process in planetesimals
- 16:30-17:00 H. Terasaki (Okayama University)  
Possibility of percolative core formation in planetesimals
- 17:00-17:20 Discussion