## RAS Specialist Discussion: Solid-Liquid Interactions in Deep Planetary Interiors Schedule

## Friday 14th October

## Morning Chairs: Fred Wilson and Dario Alfe

- 10.00 10.20 Tea and Posters
- 10.20 10.30 Introduction
- 10.30 11.10 **Invited**: Tina Ruckriemen (DLR) Freezing metallic cores: Where do all the solids go?
- 11.10 11.30 Ludo Huguet *A laboratory model for iron snow in planetary cores*11.30 11.50 Andrew Walker

A non-equilibrium model of slurries in planetary cores

- 11.50 12.10 Kathryn Dodds *Inwards core crystallization: Insights from analogue experiments.*12.10 12.30 Quentin Kriaa
- Compositional convection from iron snow: laboratory modelling with dissolving sugar
- 12.30 12.50 Jac van Driel Composition of the Martian Core
- 12.50 13.50 Lunch and Posters

## Afternoon Chairs: Andrew Walker and Fred Wilson

- 13.50 14.30 **Invited**: Charles-Édouard Boukaré Beyond 1D magma ocean models
- 14.30 14.50 Maxim Ballmer Reactive Crystallization of the Basal Magma Ocean: Consequences for present-day mantle structure
- 14.50 15.10 Helen Williams Iron isotopes trace primordial magma ocean material in the Earth's upper mantle
- 15.10 15.30 Hannah Rogers Investigating regional heterogeneity at the core-mantle boundary and its impact on outer core flow
- 15.30 16.00 Tea and Posters
- 16:00 17:00 RAS Ordinary Meeting; all welcome

Posters:

Wilson	Homogeneous nucleation of Earth's solid inner core.
Lim	Investigating the effects of chemical buoyancy on two phase flows at the core-mantle boundary
Wilczynski Ismael	Two-phase model of a slurry at the base of Earth's outer core The consequences of fractional crystallization of the Basal Magma Ocean on present-day mantle structure