



Mineral Physics Group
Research in Progress meeting April 9th-10th 2025



Day 1 Programme

Registration	12:30-13:30
Introduction	13:30-13:40
David Wallis (<i>Invited</i>)	13:40-14:20
Mild-to-wild plasticity of Earth's upper mantle	
Alexandros Patsoukis-Dimou	
High pressure and temperature viscometry from optical and X-Ray imaging of particle motions in the Laser Heated Diamond Anvil Cell	14:20-14:40
Posters and Refreshments	14:40-15:40
Guillaume Morard (<i>Invited</i>)	15:40-16:20
Study of high pressure properties of geomaterials using time-resolved diagnostics	
Elias Mansbach	16:20-16:40
Resolving the Internal Magnetic Structure of Tetrataenite	
Laboratory Tours	16:40-17:40
Group Photograph	17:40
Meeting Dinner	18:00



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Day 2 Programme

Viktoria Trautner (*Invited*)

The iron spin crossover in ferropericlase
and its seismic signal in the lower mantle

9:00-9:40

Zena Younes

Thermal conductivity of Ferropericlase:
from MgO to FeO endmembers.

9:40-10:00

Posters and Refreshments

10:00-11:00

Tomas Marqueno Villanueva (*Invited*)

The Mineral Brucite at High Pressures

11:00-11:40

Keishiro Yamashita

Crystal structure of superhydrate, sodium
chloride tridecahydrate

11:40-12:00

Ry Affleck

The thermal expansion of Ilmenite and
Geikielite under lunar mantle conditions.

12:00-12:20

Closing

12:20-12:30

MPG Annual General Meeting

12:30-13:30