

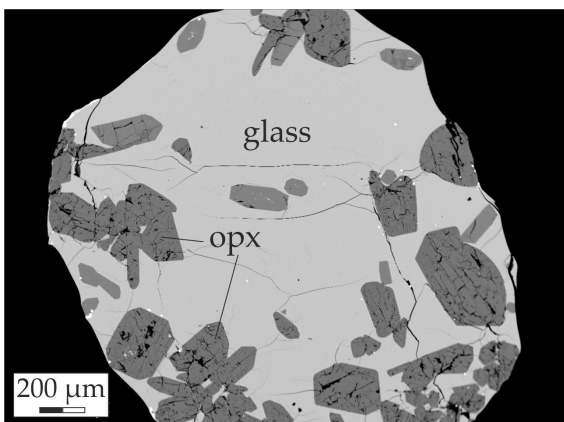
Geowissenschaftliches Kolloquium

New insights into mineral/melt partitioning as applied to melting of the lunar mantle: Why silicate melt composition and crystal chemistry matter?

Donnerstag, 10. Dezember 2015 - 16.15 Uhr

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A fundamental part of understanding how the Earth and Moon developed over time, is to constrain how different elements behave during planetary differentiation. Characterizing the partitioning behaviour of trace elements during mantle melting and crust formation is thus essential. Experiments aim to simulate both the diverse conditions experienced in a planet's interior. Using these constraints, geochemists work tirelessly to re-construct snapshots of the

initial evolutionary stages of planets, where the future geological evolution of these bodies is determined.

PD Dr. Raúl O.C. Fonseca studied Geology at the University of Lisbon, followed by a PhD at the Australian National University, and an Assistant Professorship at the University of Bonn, where he is currently an Associate Professor. His main interest is to understand how elements behave in magmatic systems, focussing on the use of in situ methods to combine experimental and natural data.



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