

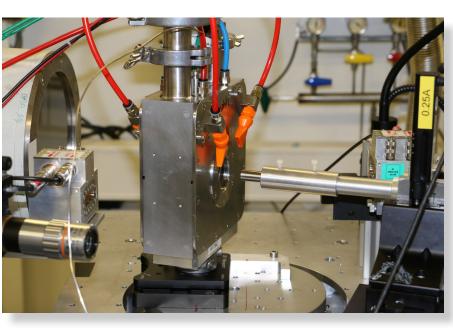
Geowissenschaftliches Kolloquium

Experimental constraints on the properties of subduction zone fluids

Donnerstag, 31. Januar 2019 - 16.15 Uhr

Marion Louvel University of Cambridge

High P-T fluids are critical actors of the subduction factory, contributing to the of volcanic development arcs or the formation of porphyry ore deposits. Yet, their composition, properties (dielectric constant, density) and actual role remain a great matter of debate, mostly due to difficulties in their sampling. Here I will present some of



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Dr. Marion Louvel's experimental research focuses on the physicochemical properties of high P-T fluids that can be found in subduction zones or ore deposits. She has for instance worked on the hydrothermal speciation of elements such as Br, Se, Cu or the HFSEs. In 2018, she was granted a Marie Curie fellowship to study Rare Earth elements in magmatic-hydrothermal system at WWU-Muenster.

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