Freie Universität Berlin

Geowissenschaftliches Kolloquium

Water in the interior of Mars

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Although water has been evidenced at the surface of Mars, the water locked in the minerals of its crust and mantle also plays a crucial role in its geological history, from magma ocean times, volcanic activity, to atmosphere formation. I will review what we know on how much water the Martian interior holds based on studies of Martian meteorites and where that water came from. Emphasis will be given on new results on hydrogen in nakhlites, 1.3 Ga old clinopyroxenite cumulates from Mars.

Dr. Anne Peslier's research focusses on water in planetary interiors. She uses geochemical tools to characterize meteorites and mantle rocks and decipher their igneous history. She is presently a senior researcher working for the company Jacobs at NASA-Johnson Space center in Houston, Texas.

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