

Lecture Abstract:

Fluid inclusions II: Liquid–vapour homogenisation

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Fluid inclusion liquid–vapour homogenisation provides information on the formation temperature of stalagmites, and thus, can be used as a quantitative temperature proxy for paleoclimate research. The lecture gives an introduction to:

- (i) Liquid–vapour homogenisation on the basis of the phase diagram of water
- (ii) The effect of surface tension on liquid–vapour homogenisation
- (iii) Sample selection, handling and preparation
- (iv) Microthermometric measurements and data evaluation

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