

2014/7/8 演講

Speaker:

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Title:

**Clumped isotope thermometry:
a new approach in paleoclimate research**

Abstract:

Reconstruction of past temperatures is fundamental to the study of past climate changes, therefore considerable efforts have gone to develop reliable tool for such investigation. A new approach of clumped isotope thermometry provided most reliable method for temperature reconstruction using well preserved carbonates of diverse origin. In this approach we require carbonates which were precipitated under equilibrium condition from water. Although the effort was laid to develop this new method to address issues related with temperature, however, little has been achieved towards extending the thermometry to higher temperature regime. This seminar will address viable questions like resetting of carbonate minerals during igneous and metamorphic cooling, grain size dependency and availability of calibrated standards for long term measurements.