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⁸¹Kr – Kr Analyses of Individual CAIs in the Allende Meteorite.

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As part of a collaborative study with J. Wasson and A. Rubin (UCLA) we are applying the RIMSKI (Resonance Ionisation Mass Spectrometer for Krypton Isotopes) instrument to define the ⁸¹Kr-Kr ages of individual CAIs in the Allende CV3 chondrite. This would allow the history of individual grains before assembly of the CV3 parent body to be investigated.

Single grains have been manually extracted and the first analyses are promising, allowing calculation of a ⁸¹Kr age with a precision of close to 10%. Calculations of cosmic ray exposure ages were based on work by Marti [1] with subsequent revision of constants stated in Strashnov *et al.* [2].

Samples were provided by our collaborators, J. Wasson and A. Rubin.

[1] Marti, K. (1967) *Physical Review Letters*, **18**, 7, 264–265. [2] Strashnov, I. et al. (2012) *LPSC 2012*,

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