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## Development of submicron CHIME dating

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CHIME (U-Th-total Pb Chemical Isochron Method) dating[1][2][3] provides an U-Th-Pb age in microvolume using electron probe microanalyzer (EPMA). It is impossible to analyze submicron grain or domain because of X-ray generation volume at the normal analytical conditions ( $E_0 = 15 - 25$  keV). Submicron CHIME dating has been developed to perform dating of submicron size grain or domain using smaller energy of incident electron.

[1] Suzuki, K. & Adachi, M. (1991) J. Earth Planet. Sci. Nagoya Univ., 38, 11 - 37.

[2] Suzuki, K. & Adachi, M. (1991) Geochem. J., 25, 357 - 376.

[3] Suzuki, K. & Kato, T. (2008) Gondwana Res., 14, 569 - 586.

Keywords: CHIME dating, U-Th-Pb dating, submicron dating, quantitative electron probe microanalysis, matrix correction