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The initial value of 129I/127I ratio

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The natural radioisotope 129I dating covers an important age range for geological samples.The iodine contains 129I that is the long half-life radionuclide besides stable isotope 127I. 129I is a cosmogenic nuclide generated by cosmic rays in the atmosphere.It is possible to measure it by using 129I 127I at the iodine age. It is possible to measure iodine dating by using this equilibrium. However, present 129I/127I ratio is very high. Because a large amount 129I was added by the human act of using nuclear power. Therefore, it is indispensable to know initial 129I/127I ratio that doesn't contain anthropogene 129I to measure 129I age.

Keywords: iodine, Iodine-129, AMS