

〈講 演〉

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新元素発見！—周期表を埋める 113 番—

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Discovery of the New Element ! —The 113th Element, Occupying a New Sheet in the Periodic Table?—

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Abstract

Superheavy element research group at RIKEN synthesized and identified an isotope of the new element with atomic number 113. It was a result of more than 20 years' experimental developments. If IUPAC(International Union of Pure and Applied Chemistry)/IUPAP(International Union of Pure and Applied Physics) Joint Working Party on discovery of elements will agree that the priority of RIKEN group's discovery of the element with atomic number 113, a right to give a name of the element will be given to RIKEN group. If it will be the case, this will be the first incident among Asian countries.

Key words: new element, nuclear fusion reaction, alpha-decay, spontaneous fission.