

A nuclear periodic table: from elementouch to nucletouch

原子核で周期表を作ってみたら：エレメンタッチからニュークリタッチへ

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The magic numbers due to closures of the nucleonic shells, that correspond to noble gases in elements, have played a crucial role in nuclear physics. In this talk, we shall discuss our recent invention of a periodic table for atomic nuclei, called “Nucletouch”. This is in a sense an extension of the 3D periodic table “Elementouch” invented by Y. Maeno in 2001. While the Elementouch recovers features of Mendeleev’s periodic law, the “Nucletouch” provides a nice visualization of nuclear deformation. By comparing the two 3D periodic tables, we show that there is an accidental coincidence between them concerning the alignments of elements.

Primary author: Prof. HAGINO, Kouichi (Kyoto University)

Co-author: MAENO, Y. (Kyoto University)

Presenter: Prof. HAGINO, Kouichi (Kyoto University)

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