

# The Theory Room

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Isospin symmetry breaking in nuclear density functional theory towards accurate description of nuclear structure

13 Marzo

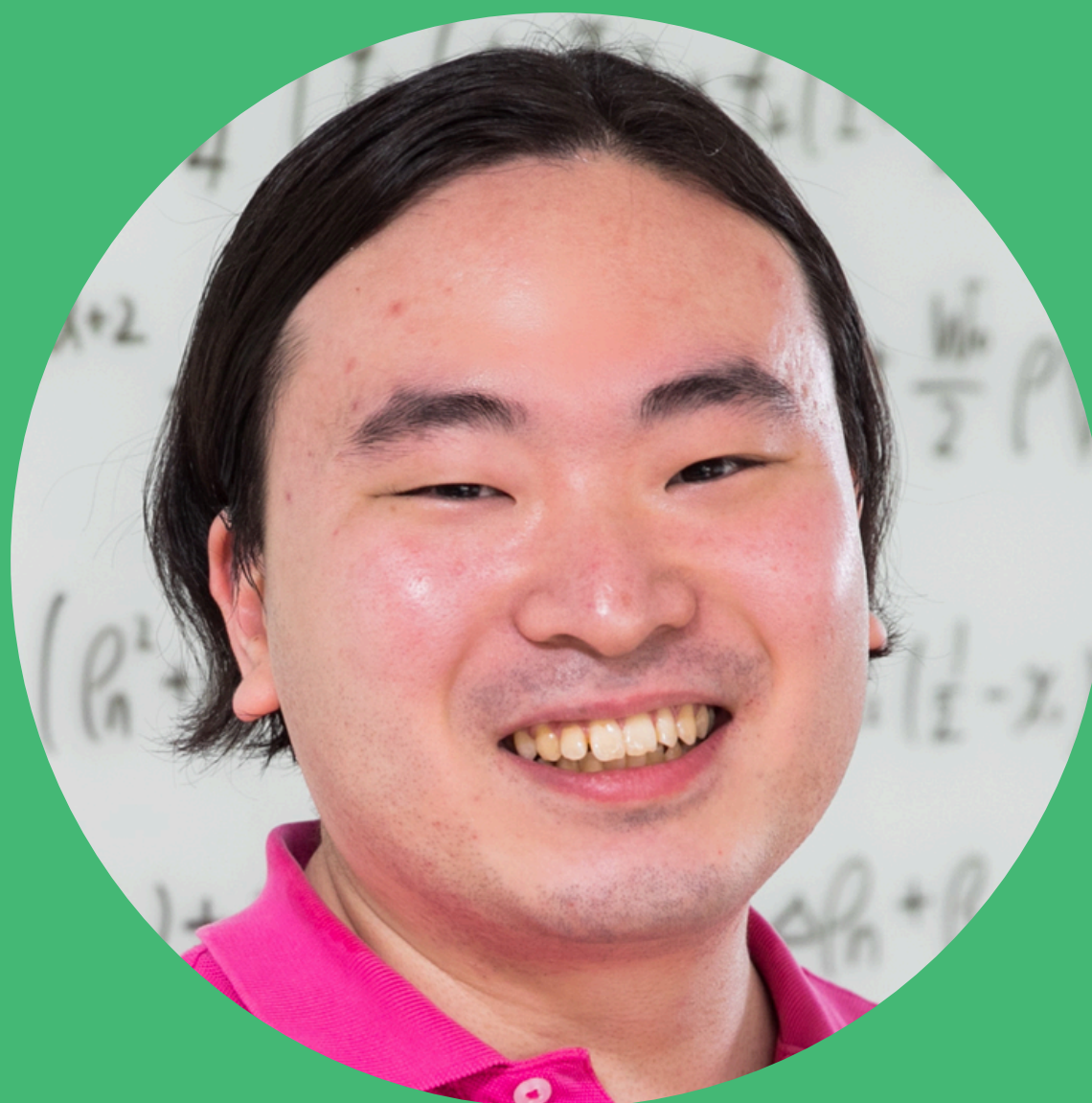
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Aula Azzurra

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Ore 15:00



The isospin symmetry breaking part of the nuclear interaction is a small part of the whole; however, it sometimes gives important contributions to nuclear properties, such as the difference of mirror nuclei, the isobaric analog states, and the neutron-skin thickness. The isospin symmetry breaking terms also affect the estimation of the slope parameter of the nuclear symmetry energy. This effect is also indispensable to describe exotic nuclei. In this talk, I will summarize our recent study on the isospin symmetry breaking in nuclear properties and introduce our recent attempt to determine the energy density functional of the isospin symmetry breaking terms.