

Abstract ID : 69

Nuclear electromagnetic properties from valence-space in-medium similarity renormalization group

Content

The electromagnetic observables can tell us nuclear structure information, such as single-particle structure and shape. Also, the electromagnetic properties can provide stringent tests of a theory. In the past two decades, the range of applicability of nuclear ab initio calculations has been rapidly extending and reaching mass number of 200 systems. In this presentation, I will discuss our recent results for charge radii, magnetic, and quadrupole moments of medium-heavy nuclei computed with the combination of chiral effective-field theory and valence-space in-medium similarity renormalization group approach.

Primary author: MIYAGI, Takayuki (University of Tsukuba)

Presenter: MIYAGI, Takayuki (University of Tsukuba)

Status: SUBMITTED

Submitted by **MIYAGI, Takayuki** on **Wednesday, 19 March 2025**