Contribution ID: 94 Type: Invited talk

Nuclear Structure in neutron-rich Ni region

Tuesday, 1 August 2023 09:55 (25 minutes)

We have studied medium-mass nuclei of various regions by Monte Carlo shell model (MCSM) calculations. Our MCSM calculations for Ni isotopes reproduce well their properties such as levels and transitions. Shape coexistence of nuclei around 68Ni is predicted by the calculations and explained by considering change of shell structure. Neutron-rich nuclei around N=50 are calculated by using extended model space and shape coexistence of 78Ni is predicted.

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Session Classification: Shell structure around 78Ni isotope