



ID de Contribution: 25

Type: **Poster presentation**

$^{77-89}\text{Zr}$ proton rich isotopes nuclear structure investigation

Systems far from β stability are good candidates for solving nuclear structure anomalies in such exotic regions and for the improvement of our knowledge about NN interaction. Odd zirconium isotopes, lay from proton drip-line to neutron one, provide encouraging opportunities to progress nuclear model development. This work aims to investigate the odd $^{77-89}\text{Zr}$ isotopes in ^{78}Ni mass region. The calculations were performed in the framework of the nuclear shell model by means of *NuShellX@MSU* code.

By applying calculated single particle energies, we have introduced some modifications on the original effective interaction, basing on monopole effect. The elaborated interaction is used to calculate some nuclear properties of the studied isotopes. The results are then compared to the available experimental data.

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Classification de Session: Poster session - with cocktail and buffet

Classification de thématique: Nuclear Structure