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Self-consistent study of isobaric analog resonances in nuclei with pairing

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Fully self-consistent calculation of the IAR resonances is performed for the long chain of Ni isotopes with Tz ≠0. The recently established DF3-f parametrization [1] of the Fayans energy density functional [2] is used. Its performance in "reference"neutron-rich Sn and Pb isotopes with developed pairing correlations is also studied. The main aim is to figure out the influence of T=1 pn-pairing on IAR characteristics and to check how the self-consistency is preserved in the calculations for long isotopic chains. Comparison with the available calculations using relativistic Hartree-Bogolubov plus D3C* functional [3] and the HF+BCS with SAMi functional [4] is performed,

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