28th International Scientific Conference of Young Scientists and Specialists (AYSS-2024)

Contribution ID: 1781

Type: Oral

## Low-energy spectra of nobelium isotopes

Tuesday 29 October 2024 14:50 (15 minutes)

The low-energy multipole spectrum in isotopes 250-260No is investigated in the framework of fully selfconsistent Quasiparticle-Random-Phase Approximation (QRPA) method with Skyrme forces [1,2]. The representative set of Skyrme parametrizations (SLy5, SLy6, SkM\* and SVbas) is applied. The main attention is paid to nuclei 252No and 254No, where we have most of the experimental spectroscopic information [3,4]. In addition to low energy one-phonon collective states (lm=20,22,30,31,32) and their rotational band, the isomeric states are inspected. In general, a good agreement with the experimental data is obtained. Some K-isomers in these nuclei are inspected. It is shown that, in the chain 250–260No, features of 252No and 254No exhibit essential irregularities caused by a shell gap in the neutron single-particle spectra and corresponding break of the neutron pairing. The low-energy pairing-vibrational  $K\pi = 0+$  state is predicted.

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Session Classification: Theoretical Physics

Track Classification: Theoretical Physics