Contribution ID: 278 Type: Oral report

## ELECTROMAGNETIC TRANSITIONS IN HEAVY ODD-A NUCLEI

The reduced probabilities  $B\{[E\lambda(M\lambda); I\pi K(K=\mu) \to (I\pi K)'\}\)$  of electro-magnetic transitions from excited states into the ground and excited states, as well as structure of low-lying states were calculated for odd-A nuclei: in the region of A=243-269 and Z=96-109. The interaction of quasiparticles and phonons was taken into account. The calculations are performed at equilibrium deformation of the nuclei. The spectra of non-rotational states were studied in the present work in the same way as in Ref. 1 using a theoretical formalism based on a microscopic-macroscopic approach and a Quasiparticle-Phonon Model [2,3]. The calculations do not contain any free parameters. The figure shows the results for the 249Cm nucleus (in Weiskopf's units, W.u. $\downarrow$ ).

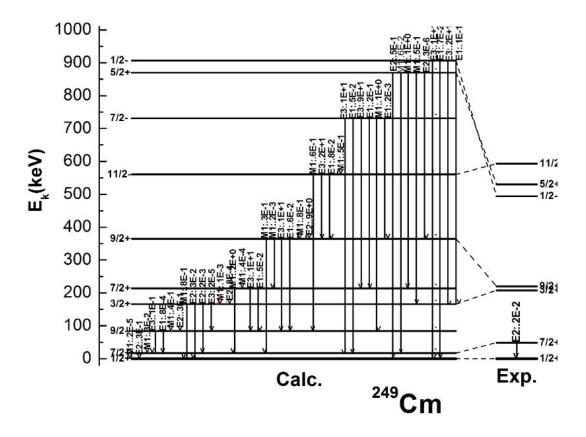


Figure 1: "

- 1. G.G.Adamian et al.// Phys. Rev. C, 2018, V. 97, P.034308.
- 2. V.G.Soloviev, Theory of atomic nuclei. Quasiparticles and and phonons. (Bristol and Philadelphia, IOP, 1992); V.G.Soloviev, Teoriya atomnogo yadra. Kvazichastitsy i fonony (M:Energoatomizdat,1989).
- 3. N.V.Antonenko and L.A.Malov// Izv. RAN, Ser. Physics, 2014, V.78, P1402.

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Session Classification: Will not participate

**Track Classification:** Section 1. Experimental and theoretical studies of the properties of atomic nuclei.