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Development of a detector system at ACCULINNA-2 fragment separator

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Modern detector systems of light charged particles ($E \sim 1 \div 45$ AMeV) and neutrons ($E < 30$ MeV) for the experiments with radioactive beams at ACCULINNA-2 fragment-separator were designed and developed [1-4]. Using such technique new information about low energy spectra of the several neutron rich nuclei ${}^7\text{H}$, ${}^7\text{He}$ and ${}^8,9\text{Li}$ was obtained [5-7]. Main characteristics of these detectors and its future application are presented.

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3. A.A. Bezbakh et al., Particles and Nuclei Letters Vol. 20, 629-636, 2023.
4. I.A. Muzalevsii et al., Bull. Russian Academy of Sciences: Physics, 84, 500-504, 2020.
5. A.A. Bezbakh et al., Phys. Rev. Lett., 124, 022502, 2020.
6. A.A. Bezbakh et al., Int. J. Mod. Phys. E, 2450002, 2024.
7. E.Yu. Nikolskii et al., NIM B 541, 121-125, 2023.

Notes

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