

Spectroscopy of ^7He in reactions of stopped pion absorption by nuclei $^{12,14}\text{C}$

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The structure of the levels of the heavy helium isotope ^7He have been studied in reactions of stopped pion absorption: $^{12}\text{C}(\pi^-, p^4\text{He})X$, $^{12}\text{C}(\pi^-, d^3\text{He})X$ и $^{14}\text{C}(\pi^-, t^4\text{He})X$. Experiment was performed at low energy pion channel of the LANL using two-arm semiconductor spectrometer. Search for nuclear states was correlative measurements of missing mass spectra up to excitation energy of ~ 30 MeV.

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