

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

*Friday, 26 October 2018 11:00 (15)*

The structure of the levels of the heavy helium isotope  $^7\text{He}$  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  $\sim 30$  MeV.

**Primary author(s)** : Dr. CHERNYSHEV, Boris (NRNU MEPhI); Dr. GUROV, Yuriy (NRNU MEPhI); Dr. LAPUSHKIN, Sergey (NRNU MEPhI); Dr. KARPUKHIN, Vasiliy (NRNU MEPhI); Dr. SANDUKOVSKY, Vyacheslav (NRNU MEPhI)

**Presenter(s)** : Dr. CHERNYSHEV, Boris (NRNU MEPhI)

**Session Classification** : Nuclear physics

**Track Classification** : Nuclear physics