Contribution ID : 185

Thermal neutrons registration by xenon gamma-ray detector

Tuesday, 6 October 2015 14:15 (15)

Experimental results of thermal neutron detection by xenon gamma-ray spectrometers are presented. The study was performed with two devices with sensitive volumes of 0.2 and 2 liters filled with high-pressure mixture of xenon and hydrogen without neutron-capture additives. Rates of the most intensive prompt neutroncapture gamma-ray lines were simulated in order to compare them with experimental data.

Presentation type

Section talk (10+5 min)

Primary author(s): Mr. SHUSTOV, Alexander (NRNU MEPhI)

Co-author(s) : Mr. NOVIKOV, Alexander (NRNU MEPHI); Mr. DUKHVALOV, Anton (NRNU MEPHI); Mr. PETRENKO, Denis (NRNU MEPHI); Mrs. KRIVOVA, Kira (NRNU MEPHI); Dr. VLASIK, Konstantin (NRNU MEPHI); Prof. ULIN, Sergey (NRNU MEPHI); Prof. DMITRENKO, Valery (NRNU MEPHI); Dr. UTESHEV, Ziyaet-din (NRNU MEPHI)

Presenter(s) : Mr. SHUSTOV, Alexander (NRNU MEPhI)

Session Classification : Methods of experimental physics - parallel I

Track Classification : Methods of experimental physics