

Thermal neutrons registration by xenon gamma-ray detector

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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 neutron-capture gamma-ray lines were simulated in order to compare them with experimental data.

Presentation type

Section talk (10+5 min)

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