

The use of liquid xenon detectors in the conditions of intensive irradiation

Monday, 10 October 2016 15:15 (30)

The detectors based on liquid xenon have high radiation resistance. They are promising detectors for operation in the conditions of intense radiation. The recovery time of the spectrometric mode of the liquid xenon detector after intensive irradiation was investigated. We presented the results of the calculation of xenon activation by thermal neutrons and gamma rays. The operation of the liquid xenon spectrometer in the intervals between pulses of the radiation was studied. The possibility of using the liquid xenon spectrometer for activation analysis for the short-lived nuclides was shown.

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Session Classification : Poster session - I

Track Classification : Methods of experimental physics