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Neutron production in the ${}^7\text{Li}(p,n)$ reaction in the energy range 17-80 MeV

The experimental data on the neutron production were collected during several irradiation campaigns on the NPI Li target using TOF method to measure the number of the peak neutrons in the forward direction, while the number of produced ${}^7\text{Be}$ nuclei was determined with the gamma-spectrometry. The ratio of the forward directed peak neutrons agrees well with the formula introduced by Uwamino and other experimental data. The fit of angular distributions was performed.

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