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Experimental Investigation of Radionuclide Production in Uranium Target.

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The experiments with a spallation target QUINTA were performed at the Dzhelepov Laboratory of Nuclear Problems, Joint Institute for Nuclear Research. The spallation target contains 512 kg of natural uranium in five sections. Threshold activation detectors of cobalt were placed in the whole volume of the target. The detectors were irradiated in the secondary neutron field generated by the 660 MeV proton beam. The first experiment was performed with the lead shielding around the target and the second one was carried out without shielding. The threshold activation detectors were measured and analysed using the gamma-ray spectroscopy. The experimental results of reaction rates from the first experiment were compared with the second experiment.

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