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**MEASUREMENT OF THE IONIZATION YIELDS OF NUCLEAR RECOILS IN LIQUID ARGON USING A TWO-PHASE DETECTOR WITH OPTICAL READOUT**

Measurement of the ionization yields of nuclear recoils is related to the energy calibration of dark matter detectors and low-energy neutrinos. In the present work, the ionization yields of nuclear recoils in liquid argon have been measured using the neutron generator and the two-phase detector with optical readout. The ionization yields in liquid argon amounted to 5,9 ± 0,8 and 7,4 ± 1 e-/keV at electric fields of 0,56 and 0,62 kV/cm respectively. The characteristic dependences of the ionization yield on energy and electric field were determined, while comparing the results obtained in other experiments.

*Keywords*: Two-phase argon, ionization yield of nuclear recoils, optical readout.