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Ultracold neutrons

The promising of further increasing accuracy of experiments, devoted to measure neutron lifetime, can be related to use the method of storage UCN in trap with small losses and account for neutron losses, way registered flux thermalized neutrons from wall of trap. For planning this experiment, was considered the several possible geometries of thermal neutron detectors. It is shown that using the additional reflector allow to use detector in the form of single cylindrical counters without decreasing of efficiency of detection thermal neutron compared with detector, which has only one working volume. The results of this work can be proposed to create optimal geometry of experimental set up.

Primary author: KEREIBAY, Dias (Kereibay)

Presenter: KEREIBAY, Dias (Kereibay)

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