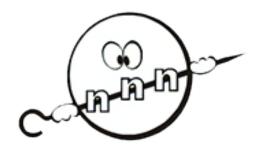
31st International Seminar on Interaction of Neutrons with Nuclei: Fundamental Interactions & Neutrons, Nuclear Structure, Ultracold Neutrons, Related Topics (ISINN-31)



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## Test of the T-Invariance with Polarization-Asymmetry Theorem in Mirror Reflection of the Slow Neutrons

Tuesday, 27 May 2025 09:55 (15 minutes)

A possibility of the test of T - invariance violation in neutron - nuclear interaction in the multiple mirror reflections of slow neutrons is considered. The reflections are assumed in a "whispering gallery" mode. It is shown that an expected effect may exceeds in magnitude a correspondent effect near p - wave resonance. The methodical features of such experiment are considered.

**Primary author:** SKOY, Vadim (Joint Institute for Nuclear Reserch)

**Presenter:** SKOY, Vadim (Joint Institute for Nuclear Reserch)

**Session Classification:** Parallel Session 1: Fundamental interactions & symmetries in neutron induced reactions/Properties of compound states, nuclear structure/Intermediate and fast neutron induced reactions/Nuclear fission

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