

# Topological proof of discreteness and nondegeneracy of state number operator spectra

*Monday 28 October 2024 18:50 (20 minutes)*

This research is dedicated to the problem of strict topologically algebraic proof of discreteness and nondegeneracy of  $N = a^\dagger a$  operator in the Hilbert space. It is crucial for building of eigen spaces of operator  $N$  whose direct sum forms the Hilbert space.

**Primary author:** KOVALEV, Oleg (MLIT JINR)

**Presenter:** KOVALEV, Oleg (MLIT JINR)

**Session Classification:** Poster session & Welcome drinks

**Track Classification:** Theoretical Physics