

**Yuri Orlov**

**Title: On the commutation of quantum operators of the first integrals of Hamiltonian systems**

**Abstract:**

In this paper the effect of integrability destruction is analyzed for Hamiltonian system with complete set of the first integrals under linear quantization. The operators, corresponding to these integrals, are investigated. The example of integrable two-dimensional dynamical system is considered. The perturbation of quantum operators is analyzed for the case of integrability conservation.