**STRUCTURE OF HEAVY NUCLEI AND NUCLEON-NUCLEON INTERACTION**

R. V. Jolos

*Joint Institute of Nuclear Research, Dubna, Russia*

E-mail: jolos@theor.jinr.ru

The report considers:

* phenomenological approaches to finding effective nucleon-nucleon forces for calculations of nuclear structure;
* shell model calculations in large configuration spaces;
* calculations of nuclei structure based on free nucleon-nucleon potential;
* Energy Density Functional approach;
* effective field theory for nucleon-nucleon interactions in the cores.