Introduction to the Central Asian Nuclear Reaction Database

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Given a description of the project for the development and formation of computer database of nuclear reactions at Al-Farabi Kazakh National University. Intended to include the Central Asian Nuclear Reaction Database (CA-NRDB) to the global network of databases, supervised by the IAEA. Identifies the main objectives of the project, structure, functional relations and features of CA-NRDB. We are planning to create a Kazakhstan database on nuclear reactions in three languages: English, Kazakh and Russian, and the development of the educational section: reference material, scientific papers and tutorials of high quality. The methodology of the research and development of CA-NRDB based on the experience gained in the format EXFOR (National Nuclear Data Center USA (Brookhaven) and Nuclear Data Section IAEA (Vienna, Austria)), a database of Moscow State University and the University of Hokkaido. CA-NRDB suggest: online access; clarity of the work for user and the search by various parameters (the characteristics of the nuclei and the reactions, experiments, authors, etc.); possibility of output to system EXFOR.

CA-NRDB assures direct access to our partner DBs – the DB of photonuclear reactions SRINP at Moscow State University (Russia) and to the nuclear DB of Hokkaido University (Japan). Collaboration with these universities with their half-century experience in specialized data base development is very fruitful for our junior team and contributes a lot to the development of the first in Central Asia database on nuclear reactions.