

Recent activity of Central Asian Nuclear Reaction Database

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A Central Asian Centre for nuclear reactions (CA-NRDB) has been established at al-Farabi Kazakh National University, and a group of experts there is actively working on development of nuclear reaction database fostering their cooperation with the international network of nuclear data (NRDC) at IAEA.

It was a challenging task for us here, since we had no previous experience in EXFOR compilation and no specialized facilities or equipment. After our last participation in Technical meeting on NRDC in Smolenice (Slovakia), we developed our website with ergonomic graphical interface and own database structure. Now, website of CA-NRDB is available in world-wide-web at this address: <http://canrdb.kaznu.kz/>.

CA-NRDB website is created in three languages – Kazakh, English and Russian. Our database is designed to support educational activities and scientific research. An extensive electronic library was also created to incorporate textbooks, presentations, lectures, scientific papers, etc. The English-language version of the CA-NRDB is designed for incorporation into the international network of the nuclear data bases under IAEA. The core of the CA-NRDB would be the development of the database for nuclear physics and nuclear astrophysics.

Since previous Technical Meeting on NRDC, our Data Center has compiled 6 entries. To compilation for EXFOR format, we were advised by Dr. N.Otsuka of IAEA. The new EXFOR entries prepared by the Kazakhstan and Uzbekistan groups are shown in Table 1 below.

Entry #	First author	Article	Lab.	Status
31738	Yu.N.Koblik	J,AE/T,116,401,2014	4UZ UZB	TRANS.3163
D0744	A.Duisebaev	J,BAS,78,601,2014	4KASKAZ	In EXFOR
D0745	B.N.Gikal	J,PPN/L,11,462,2014	4KASKAZ	TRANS.D096
D0751	Sh.Hamada	J,IMP/E,22,1350058,2013	4KASKAZ	TRANS.D096
D0697	S.I.Mulgin	J,NP/A,824,1,2009	4UZ UZB	In EXFOR
D0712	N.Burtebayev	J,NP/A,909,20,2013	4KASKAZ	TRANS.D093

Table 1. New EXFOR entries prepared by the Kazakhstan+Uzbekistan group