

INDC International Nuclear Data Committee

Proceedings of the
**Fifth AASPP Workshop on
Asian Nuclear Reaction Database Development**

Bhabha Atomic Research Centre, Mumbai, India

22 – 24 September 2014

Edited by

Alok Saxena
Nuclear Physics Division, Bhabha Atomic Research Centre

February 2015

F. Ergashev et al., Inclusion of nuclear data of Uzbekistan authors to the NRDC during 2013-2014 years	147
N. Burtebayev et al., Experimental and theoretical investigation of scattering of alpha particles from ^{13}C nuclei	149
N. Kenzhebeyev et al., Joint activities with IAEA on uploading of scientific papers from Kazakhstan and Uzbekistan into the EXFOR database	153
N. Burtebayev et al., Study of interaction mechanisms of alpha particles with ^{11}B nuclei at low energies	155
Chen Guochang et al., Introduction of the digitization software GDgraph	159
Vidya Thakur, Review on compilation work in JCPRG	163
Panel Discussion	167

Joint activities with IAEA on uploading of scientific papers from Kazakhstan and Uzbekistan into the EXFOR database

N.Kenzhebeyev¹, V.Kurmangalieva¹, N.Otuka², N.Takibayev¹
¹ *al-Farabi Kazakh National University, Almaty, Kazakhstan*
² *IAEA Nuclear Data Section, Vienna, Austria*

More than a year passed since Kazakhstan joined the international network of nuclear reactions data centers (NRDC). A Central Asian centre for nuclear reactions (CANRDB, Central Asia Nuclear Reaction Database) has been established at al-Farabi Kazakh National University, and a group of experts there is actively working on expansion of the database, further development of the specialized software, and fostering partnership with international nuclear physicists. There are also on-going activities aimed on training, searching of the published nuclear data obtained earlier by scientists from Central Asia to incorporate their results in the database. The main objective of CA-NRDB is the development and formation in Kazakhstan of open and user-friendly database on nuclear reactions with further incorporation of this database in the international network of nuclear databases under the International Atomic Energy Agency (IAEA). We note that such a database is created in the entire Central Asian region for the first time.

The CANRDB team started its work from compilation of research article in November 2013 and since then eleven articles were downloaded into the EXFOR database. All the articles were published in 2013-2014 and relate to experiments on nuclear reactions; the authors are from Kazakhstan and Uzbekistan. Below we present a list of the articles incorporated in the database by the CANRDB team.

Entry #	First author	Article	Lab.	Status
31737	S.R.Palvanov	J,PAN,77,35,2014	4UZ UZB	PRELIM.3163
31738	Yu.N.Koblik	J,PAN,77,39,2014	4UZ UZB	PRELIM.3163
31741	G.A.Abdullaeva	J,NESE,3,72,2013	4UZ UZB	Compiled.
D0711	Sh.Hamada	J,PR/C,87,024311,2013	4KASKAZ	in EXFOR
D0712	N.Burtebayev	J,NP/A,909,20,2013	4KASKAZ	TRANS.D093
D0723	V.T.Gkadun	J,IZK,1980,(4),82,1980	4KASKAZ	in EXFOR
D0725	I.N.Khaustov	J,IZK,1990,(2),3,1990	4KASKAZ	in EXFOR
D0726	A.Vasidov	J,IZU,1981,(3),93,1981	4UZ UZB	in EXFOR
D0727	S.Muhammedov	J,IZU,1985,(5),81,1985	4UZ UZB	in EXFOR
D0728	V.V. Dyachkov	IET,56,521,2013	4KASKAZ	in EXFOR
G0041	S.R.Palvanov	J,PAN,77,35,2014	4UZ TSK	PRELIM.G029

As one can see from the table above, six articles have already been posted and are available at the related IAEA web-site. Such uploading process takes from one to four months. Several articles published in previous years in local journals are now processed for incorporation in the EXFOR database.

CANRDB team has participated in the technical meeting of NRDC under the auspices of the IAEA held in Smolenice (Slovakia) on May 6-9, 2014. Participation in this meeting was of particular importance for the CANRDB team and allowed to present our activities among experienced colleagues from other centers with nuclear data bases. This was the first step