



INSTITUTE OF NUCLEAR PHYSICS



Compilation of experimental nuclear reaction data measured in Central Asia region

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NRDC 2018

1-4 May, 2017, India, Bahadurgarh

- Compilation activity started in 2013
- MEMBERS:
 - *T. Zholdybayev*: Head of laboratory of INP - liaison
 - *N.Kenzhebayev*: PhD student of KazNU - compiler
- USING SOFTWARES:
 - HENDEL (Japanese compilation tool)
 - GSYS (Japanese digitization tool)



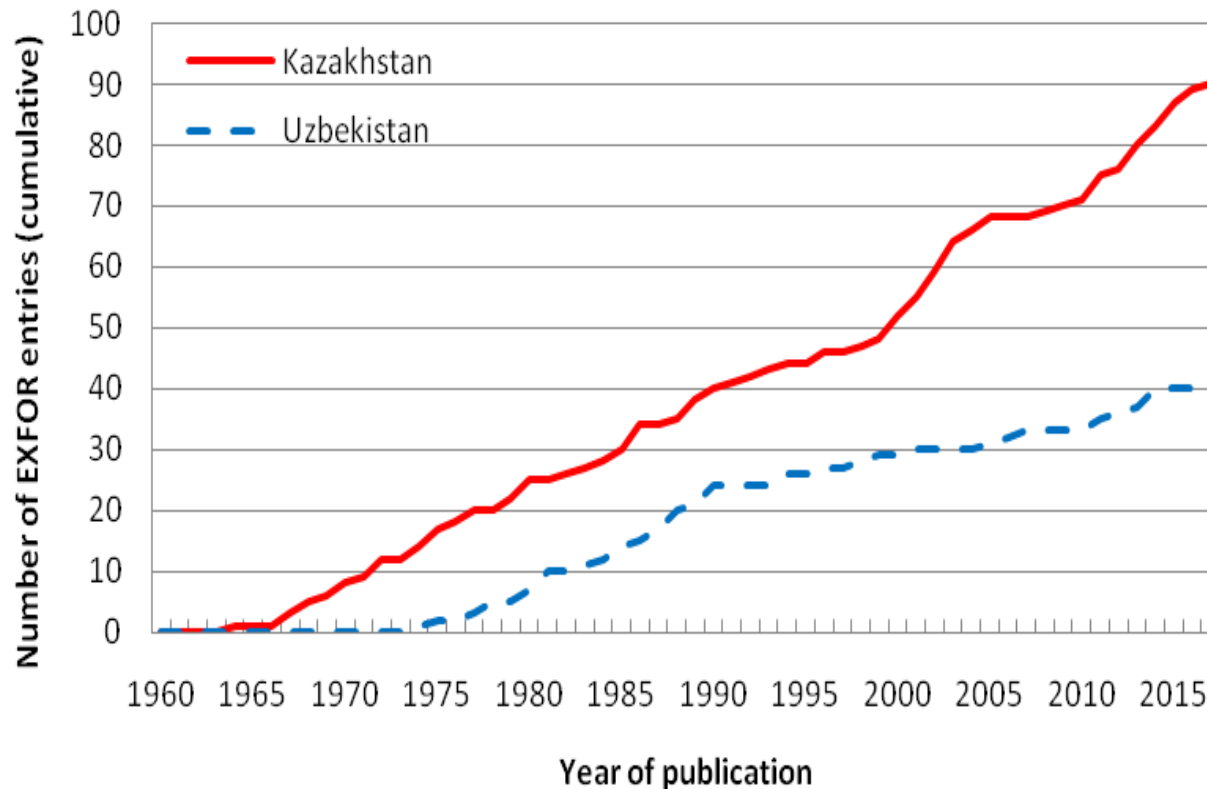
Dr. Zholdybayev
Head of laboratory



N.Kenzhebayev
compiler



Cumulative number of EXFOR entries created from the experiments performed in Kazakhstan and Uzbekistan



Cumulative number of EXFOR entries created from the experiments performed in Kazakhstan and Uzbekistan

Year of compilation	2013	2014	2015	2016	2017	2018
Kazakhstan	4	4	5	6	5	4
Uzbekistan	2	4	0	0	1	0
Total	6	8	5	6	6	4



COMPILED ARTICLES

Entry #	First author	Article	Status NRDC 2017	Status 2018
D0841	N.Burtebayev	Int.J.Mod.Phys.E.26(2017)	Compiled	In EXFOR
D0842	N.Burtebayev	Acta Phys.Pol.B47(2016)2017	Compiled	In EXFOR
D0828	Sh.Hamada	Phys.Scr.84(2011)045201	No yet	Compiled
D0867	N.Burtebayev	Int.J.Mod.Phys.E.25(2016)1650078	Waiting	In EXFOR
D0879	N.Burtebayev	J.Phys.Conf.Ser.590(2015)012055	Waiting	Compiled
D0844	Sh.Hamada	Int.J.Mod.Phys.E.23(2014)1450061	Waiting	In EXFOR
D0846	Sh.Hamada	J.Phys.Conf.Ser.381(2012)012130	Waiting	In EXFOR
G0057	S.R.Palvanov	Atom.Ener.98,N3,(2005)		In EXFOR
D0849	D.K.Nauruzbayev	Phys.Rev C.96,014322,(2017)		In EXFOR
D0876	AK.Nurmukhanbetova	J,NIM/A,847,125,2017		In EXFOR
D0892	A.Duisebayev	J,BAS,81,1170,2017		Compiled



Experimental data on nuclear reaction in INP are obtained on the following basic facilities

- **Isochronous cyclotron U-150 M**
- **Accelerator Complex DC-60**
- **Electrostatic recharging accelerator UKP-2-1**
- **Research nuclear reactor WWR-K (laboratory was closed)**
- **Neutron d-t generator (decommission)**

WAITING ARTICLES

First author	Article
N.Burtebayev	Acta Phys. Pol. B48 (2017) 495
N.Burtebayev	Acta Phys.Pol.B, proceeding supplement, 11 (2018) 99
T. Zholdybayev	Acta Phys. Pol. B49 (2018) 693



OLD DATA

	EXFOR
Preprint	F1168, F0668, F1184, F1160, F0497 + NEW
Experiment logbooks	F0570, F0940 large data sets



OLD DATA

Visit of Dr. Otsuka in Almaty in September 2017



The domestic journal “Izvestiya of Kazakh Academy of Science” was scanned in Kazakh National University library. 50 experimental data were found from 1968 to 2004 yy. and the numerical data of these experiments should be checked in INP library.



THANKS FOR YOUR ATTENTION

