



INSTITUTE OF NUCLEAR PHYSICS

**Compilation of experimental nuclear reaction
data measured in Central Asia region**

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Compilation activity started in 2013

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USING SOSTWARES:

HENDEL (JCPRG)



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

Year of compilation	2013	2014	2015	2016	2017	2018	2019	2020 2021	2022
Kazakhstan	4	4	5	6	5	4	6	10	4
Uzbekistan	2	4	0	0	1	0	0	4	0
Total	6	8	5	6	6	4	6	14	4



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

- Isochronous cyclotron U-150 M (INP, Kazakhstan)
- Heavy Ion Cyclotron DC-60 (INP, Kazakhstan)
- Electrostatic accelerator UKP-2-1 (INP, Kazakhstan)
- Neutron d-t generator (INP, Uzbekistan)



COMPILED ARTICLES

Entry	First author	Article	Accelerator Reaction
D8049	Y.Kucuk	J,EPJ/A,58,97,2022	U-150M (p,xp)
D8045	T.K.Zholdybayev	J,APP/BS,14,821,2021	U-150M (p,xp), (p,x α)
31847	F.Kh.Ergashev	J,APP/BS,14,849,2021	NG-150 (N,tot)
D8044 (on rev.)	A.Volya	J,PR/C,105,014614,2022	DC-60 (¹⁵ N,alpha)



Articles that have not yet been compiled in EXFOR

N	First author	Article
1	N.Burtebayev+	J,JP/CS,590,012056,2015
2	N.Burtebayev+	J,APP/B,48,495,2017
3	N.Burtebayev+	J,APP/B,50,1423,2019
4	N.Burtebayev+	J,APP/B,50,703,2019
5	N.Burtebayev+	J,IMP/E,28,1950028,2019
6	D.M.Janseitov+	J,APP/B,51,745,2020
7	M.Nassurlla+	J,APP/B,51,751,2020
8	N.Amangeldi+	J,APP/B,51,757,2020
9	N.Burtebayev+	J,JP/CS,1555,012028,2020
10	M.Nassurlla+	J,CPH/C,44,104103,2020
11	M.Nassurlla+	J,EPJ/A,57,231,2021
12	F.R. Egamova	J,APP/BS,14,727,2021
13	V.V.Dyachkov	J,APP/BS,14,811,2021
14	S.R.Palvanov	J,APP/BS,14,827,2021



THANKS FOR YOUR ATTENTION

