

Center of Nuclear Physics Data

Progress report to the NRDC Meeting, IAEA

June 17 -20, 2025

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EXFOR compilation

New

TRANS.F099

TRANS.F100

34 entries

Revised

TRANS.A110

TRANS.A111

TRANS.A112

TRANS.A113

TRANS.A114

TRANS.A115

TRANS.A116

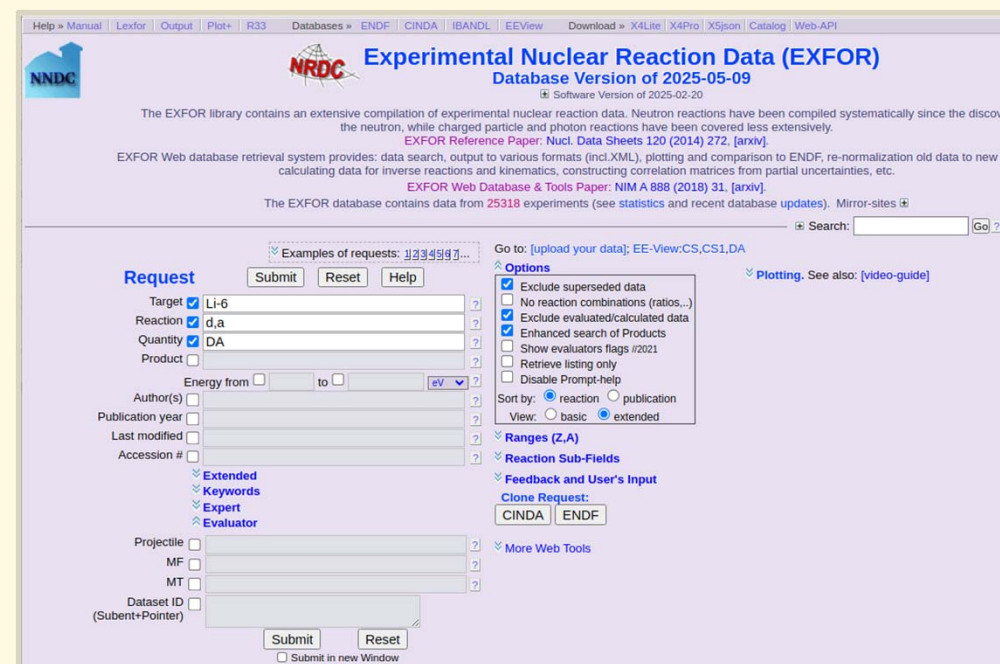
TRANS.A117

TRANS.A118

TRANS.A119

TRANS.A120

219 entries



Help » Manual | Lexor | Output | Plot+ | R33 | Databases » ENDF | CINDA | IBANDL | EEView | Download » X4Lite | X4Pro | X5json | Catalog | Web-API

Experimental Nuclear Reaction Data (EXFOR)
Database Version of 2025-05-09
Software Version of 2025-02-20

The EXFOR library contains an extensive compilation of experimental nuclear reaction data. Neutron reactions have been compiled systematically since the discovery of the neutron, while charged particle and photon reactions have been covered less extensively.
[EXFOR Reference Paper: Nucl. Data Sheets 120 \(2014\) 272. \[arxiv\]](#)
EXFOR Web database retrieval system provides: data search, output to various formats (incl.XML), plotting and comparison to ENDF, re-normalization old data to new standards, calculating data for inverse reactions and kinematics, constructing correlation matrices from partial uncertainties, etc.
[EXFOR Web Database & Tools Paper: NIM A 888 \(2018\) 31. \[arxiv\]](#)
The EXFOR database contains data from 25318 experiments (see [statistics](#) and recent database updates). Mirror-sites: [Mirror-sites](#)

Search: Go ?

Go to: [upload your data]; EE-View:CS,CS1,DA

Request

Examples of requests: [1234567...](#)

Target ☒ Li-6 ?
Reaction ☒ d,a ?
Quantity ☒ DA ?
Product ☐ ?
Energy from to eV ?
Author(s) ?
Publication year ?
Last modified ?
Accession # ?
☐ Extended
☐ Keywords
☐ Expert
☐ Evaluator
Projectile ☐ ?
MF ☐ ?
MT ☐ ?
Dataset ID ?
(Subent+Pointer) ?

☐ Submit in new Window

Options

☒ Exclude superseded data
☐ No reaction combinations (ratios...)
☒ Exclude evaluated/calculated data
☒ Enhanced search of Products
☐ Show evaluators flags #2021
☐ Retrieve listing only
☐ Disable Prompt-help
Sort by: ☒ reaction ☐ publication
View: ☐ basic ☒ extended

Ranges (Z,A)

Reaction Sub-Fields

Feedback and User's Input

Clone Request:

More Web Tools

[Plotting. See also: \[video-guide\]](#)

Software

-EXFOR-Editor 4.02.2

Work in TRANS Mode

Feedbacks

J. Wang

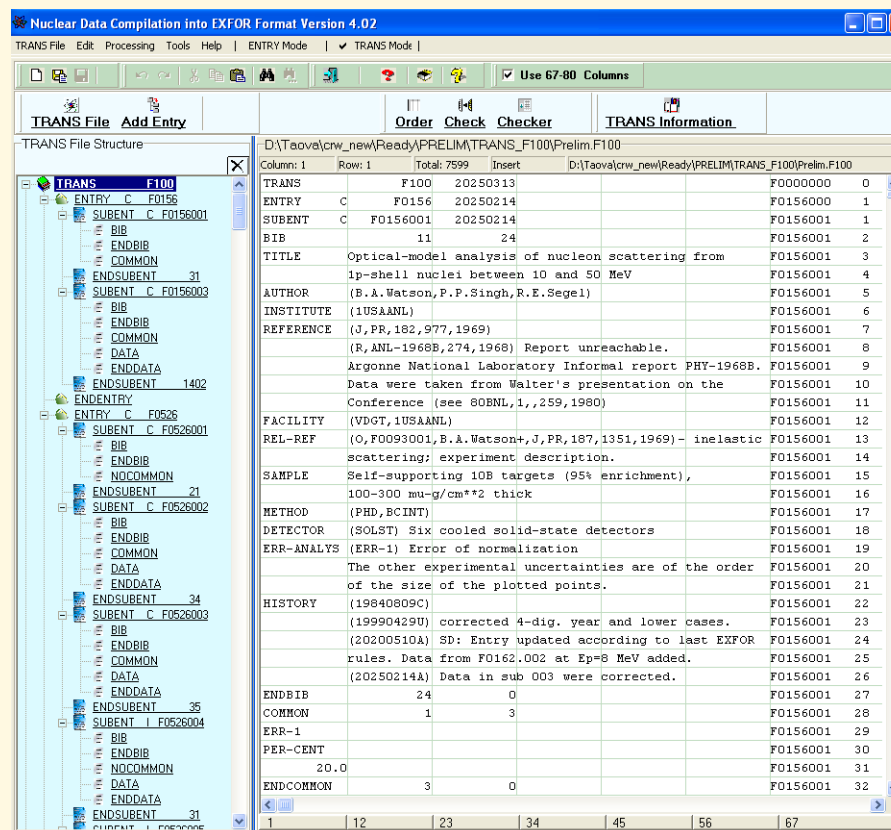
A. Kimura

B. Pritychenko

S. Selyankina

S. Dunaeva

N. Otsuka



Column: 1	Row: 1	Total: 7599	Insert	D:\Taova\cnw_new\Ready\PRELIM\TRANS_F100\Prelim.F100
TRANS	F100	20250313		F0000000 0
ENTRY	C	F0156	20250214	F0156000 1
SUBENT	C	F0156001	20250214	F0156001 1
BIB	11	24		F0156001 2
TITLE	Optical-model analysis of nucleon scattering from 1p-shell nuclei between 10 and 50 MeV			F0156001 3
AUTHOR	(B.A. Watson, P.P. Singh, R.E. Segel)			F0156001 4
INSTITUTE	(USANL)			F0156001 5
REFERENCE	(J, PR, 182, 977, 1969)			F0156001 6
	(R, ANL-1968B, 274, 1968) Report unreachable.			F0156001 7
	Argonne National Laboratory Informal report PHY-1968B.			F0156001 8
	Data were taken from Walter's presentation on the Conference (see 80BNL, 1,, 259, 1980)			F0156001 9
FACILITY	(VDGT, 1USANL)			F0156001 10
REL-REF	(O, F0093001, B.A. Watson+, J, PR, 187, 1351, 1969) - inelastic scattering; experiment description.			F0156001 11
SAMPLE	Self-supporting 10B targets (95% enrichment), 100-300 mu-g/cm*2 thick			F0156001 12
METHOD	(PHD, BCINT)			F0156001 13
DETECTOR	(SOLST) Six cooled solid-state detectors			F0156001 14
ERR-ANALYS	(ERR-1) Error of normalization			F0156001 15
	The other experimental uncertainties are of the order of the size of the plotted points.			F0156001 16
HISTORY	(19840809C)			F0156001 17
	(19990429U) corrected 4-dig. year and lower cases.			F0156001 18
	(20200510A) SD: Entry updated according to last EXFOR rules. Data from F0162,002 at Ep=8 MeV added.			F0156001 19
	(20250214A) Data in sub 003 were corrected.			F0156001 20
ENDBIB	24	0		F0156001 21
COMMON	1	3		F0156001 22
ERR-1				F0156001 23
PER-CENT	20.0			F0156001 24
ENDCOMMON	3	0		F0156001 25

“A51 (Continuing action) Continue development and testing of the EXFOR-Editor and InpGraph in cooperation with NDS and other data Centres”.

Memo CP-F/025

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Memo CP-F/025

Date: 14 March 2025
To: Distribution
From: S. Taova
Subject: Addition to Dict. 3 (Institute codes)
Addition to Dict. 5 (Journal codes)

Memo CP-F/026

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Memo CP-F/026

Date: 21 March 2025
To: Distribution
From: S. Taova
Subject: Update of Dict. 3 (Institute codes)



LXXV International Conference «NUCLEUS – 2025. Nuclear physics, elementary particle physics and nuclear technologies»

1–6 Jul 2025
St. Petersburg State University
Europe/Moscow timezone



G. Pikulina, S. Taova

“Development of EXFOR-Editor software package to input information on nuclear reactions into the EXFOR library”

Scanning of Journals

“Izvestiya Akademii Nauk”

“Yadernaya Fizika”

Thank you!