

Center of Nuclear Physics Data

Status report to the NRDC Meeting, IAEA

June 14-17, 2022

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Russian Federal Nuclear Center-VNIIEF

Russia, 607188, Sarov, Nizhnij Novgorod region, pr. Mira, 37

EXFOR compilation

New

TRANS.F087
PRELIM.F088

Revised

TRANS.F083
TRANS.F084
TRANS.F085
TRANS.F086
TRANS.A098
PRELIM.A099

28 new entries

The screenshot shows the 'Experimental Nuclear Reaction Data (EXFOR) Database Version of 2022-05-31' interface. It includes a navigation menu at the top, a header with the NRDC logo, and a main search area. The search area is divided into 'Request' and 'Options' sections. The 'Request' section has fields for Target (Be-9), Reaction (p,a), Quantity (Da), Product, Energy from, Author(s), Publication year, Last modified, and Accession #. The 'Options' section has checkboxes for 'Exclude superseded data', 'No reaction combinations (ratios,...)', 'Exclude evaluated/calculated data', 'Enhanced search of Products', 'Show evaluators flags/notes', 'Retrieve listing only', and 'Disable Prompt-help'. There are also 'Submit' and 'Reset' buttons, and a 'Submit in new Window' checkbox. A 'Note' section at the bottom explains search criteria and symbols.

Software

-EXFOR-Editor

ExfData - 4.01

Wizard of Subentry with Supplemental Information

BIB Section

STATUS Code (Dict.16) Free Text
TABLE Fig.21(b) of Nucl.Instr.Meth.A1003(2021)165318 Data were

SUPPL-INF Code (Dict.38) Free Text
INCSP 51.5 keV filtered neutron spectrum (Si 20cm) calculated by the

Col.Number	Col.#	Data Title & Data Units	Precision
2	1:	Neutron energy (eV)	YES
	2:	Relative neutron intensity (per energy)	YES

Selected Column: 1 Selected Row: 1

Col. 1:	Col. 2:
1	4.14E+04
2	4.18E+04
3	4.22E+04
4	4.26E+04
5	4.30E+04
6	4.34E+04
7	4.38E+04
8	4.42E+04
9	4.46E+04
10	4.50E+04
11	4.54E+04
12	4.58E+04
13	4.62E+04
14	4.66E+04
15	4.70E+04
16	4.74E+04
17	4.78E+04
18	4.82E+04

23746.exf

SUBENT Number
004

SUBENT Input Options
 After Current SUBENT
 End of File

Data
 Import Sort
 Paste Chart
 Clear

Column
 Set Value Calculate
 Precision Check
 Copy Clear

Row
 Add Insert
 Copy Delete
 Move Up Move Down

Table
 Export Undo

HISTORY
 Use
 Date 20210827 Code (Dict.15) C Free Text Atsushi Kimura

OK
Cancel

“A56 (Continuing action) Continue development and testing of the EXFOR-Editor and InpGraph in cooperation with NDS and other data Centres”.

Software

-EXFOR-Editor

ExfData - 4.01

CENTER OF NUCLEAR PHYSICS DATA (CNPD)

EXFOR-Editor

**- tool for inputting and editing experimental data in the EXFOR
format**

G. Pikulina, S. Taova

*Created: 15.05.2006
Modified: 26.09.2006
Modified: 28.04.2009
Modified: 5.02.2013
Modified: 14.09.2021*

Scanning of Journals

“Izvestiya Akademii Nauk”

“Yadernaya Fizika”

25-th Anniversary of CNPD

Full EXFOR Compilation Statistics (based on HISTORY)

Information updated: 07-Jun-2022, 16:07:44

#. Year	USA	NEA-DB	NDS	CJD	ATOMKI	CDFE	CNDC	CNPD	CPRG	UkrNDC	NDPCI	KNDC	KAZMON	CAJaD	KCPDG	RIKEN	Sum
52. 2022			14				4			2	15	2	1				38
51. 2021	152	93	36	23	5	11	26	15	4	15	38	10	12				440
50. 2020	217	134	77	40	10	12	31	29	38	11	35	3	23				660
49. 2019	124	108	44	24	4	34	18	31	34	58	79	7	5				570
48. 2018	123	111	79	13	16	13	29	48	34	15	23	10					514
47. 2017	116	62	39	30	21	33	25	29	19	11	54	11					450
46. 2016	119	72	52	6	29	7	31	27	27	16	8	7					401
45. 2015	103	69	58	7	17	27	30	29	21	12	49	19					441
44. 2014	92	105	55	7	23	21	26	42	27	14	23	4		1			440
43. 2013	124	83	36	14	11	12	7	25	62	16	51	3		16			460
42. 2012	129	201	45	9	22	20	18	41	79	10	19	9		26			628
41. 2011	78	97	54	19	16	37	10	50	53	13	59	8		47			541
40. 2010	75	100	67	20	8	20	19	53	57	9	14	10		30			482
39. 2009	132	178	84	11	26	19	11	70	104	19	63	7		19			743
38. 2008	94	192	145	19	15	27		84	22	27	15			20			660
37. 2007	125	196	37	21	15	25		84	149	34	34						720
36. 2006	159	158	99	26	16	26	21	50	80	25	10			10			680
35. 2005	459	127	119	16	12	16	2	67	100	7				11			936
34. 2004	204	179	187	8	9	16		107	72	5				60			847
33. 2003	72	114	22	22	31	8	4	136	93	3				30			535
32. 2002	92	122	7	18	1	15	1	34	54	1				68			413
31. 2001	128	125	15	14	22	11	7	72	5	3				17			419
30. 2000	206	189	4	37			16	66		1				22			541
29. 1999	171	142	9	20		53	5	59	7	1				38			505
28. 1998	92	188	10	48	1	28		5	39	2				10			423
27. 1997	110	127	17	46	18	21		8	2					15			364

Total	7617	5997	2556	1742	403	1024	438	2165	1318	330	589	110	41	878	180	52	25440
%	29.9	23.6	10.0	6.85	1.58	4.03	1.72	8.51	5.18	1.30	2.32	0.43	0.16	3.45	0.71	0.20	100%
	USA	NEA-DB	NDS	CJD	ATOMKI	CDFE	CNDC	CNPD	CPRG	UkrNDC	NDPCI	KNDC	KAZMON	CAJaD	KCPDG	RIKEN	Sum

25-th Anniversary of CNPD

VNIIEF CNPD

Codes ZCHEX, ZORDER and EXFOR-Converter System by V.Zerkin, IAEA/NDS are used

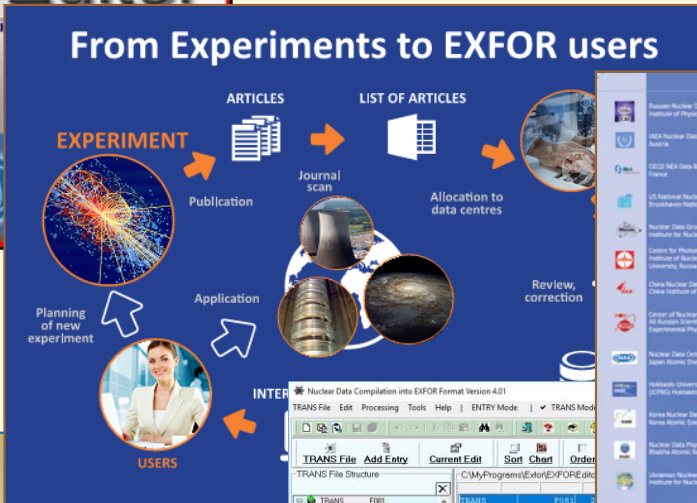
Code JANIS Trans Checker by N.Soppera, NEA DB is used

EXFOR Editor

Compilation

THANKS FOR USE OF EXFOR Editor

Thanks to NRDC community for proposals and testing



EXFOR: THE FORMAT THE LIBRARY ITSELF THE INFORMATION SYSTEM

- IAEA Nuclear Data Section (NDS)
- OECD NEA Data Bank (NEA DB)
- US National Nuclear Data Center (NNDC)
- Nuclear Data Group (NDG)
- Centre for Photonuclear Experiments Data (CPED)
- China Nuclear Data Center (CNDC)
- Center of Nuclear Physics Data (CNPD)
- Nuclear Data Center (IAEA/NDCC)
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- Nuclear Data Center (IAEA/NDCC)
- Nuclear Data Center (IAEA/NDCC)

EXPERIMENTAL NUCLEAR REACTION DATA LIBRARY EXFOR



TRANS File Structure	TRANS File Structure	TRANS File Structure
TRANS	FO497	FO497
ENTRY C	FO497	FO497
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ENDENTRY		
ENTRY C	FO497002	FO497002
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ENTRY C	FO497099	FO497099
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ENTRY C	FO497100	FO497100
ENDENTRY		

INPGRAPH: QUICK-START TUTORIAL

STEP 1: Launch InpGraph

STEP 2: Load image: [options]

STEP 3: Define Entry number and additional independent variables

Thank you!