

Center of Nuclear Physics Data



Status report to the NRDC Meeting,
June 7-10, 2016, Beijing, China

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EXFOR compilation

TRANS.F058

TRANS.F059

TRANS.F060

TRANS.F061

PRELIM.A084

Help » Manual PDF | Lexfor | NNDC-Help | Output | Plot+ | R33 | Databases » ENDF | CINDA | IBANDL | CD-ROM » EXFOR-CINDA | CD-Catalog

Experimental Nuclear Reaction Data (EXFOR)
Database Version of April 01, 2016
Software Version of 2016.04.15

News

- 2016/03 **New.** Upload your data for constructing covariance matrix, calculating inverse reaction cross sections, etc. [page]
- 2016/02 **New.** Output links to NSR and Web publication for secondary references of an Entry
- 2016/01 **New.** Display original publication of the IAEA INDC Reports (in PDF format)
- 2015/03 **New.** Inverting reaction data using detailed balance. Example: $^{13}\text{C}(\alpha,n)^{16}\text{O} \rightarrow ^{16}\text{O}(n,\alpha)^{13}\text{C}$

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. The library contains data from 21224 experiments (see statistics and recent updates).
EXFOR Reference Paper: Nucl. Data Sheets 120(2014)272

Search: Go

Examples of requests: 1234567...
1 Cross section $\sigma(E)$ More examples...

Request [Submit] [Reset] [Help]

Target Li7 ?

Reaction p,a ?

Quantity ?

Product ?

Energy from to eV ?

Author(s) ?

Publication year ?

Accession # ?

Extended
Keywords
Expert

[Submit] [Reset]

Options

- Exclude superseded data
- No reaction combinations (ratios...)
- Exclude evaluated data
- Enhanced search of Products
- Retrieve listing only
- Disable PromptHelp

Sort by: reaction publication
View: basic extended

Ranges (Z,A)

Reaction Sub-Fields

Feedback and User's Input

Clone Request:
CINDA ENDF

Note:

32 new entries

167 revised entries

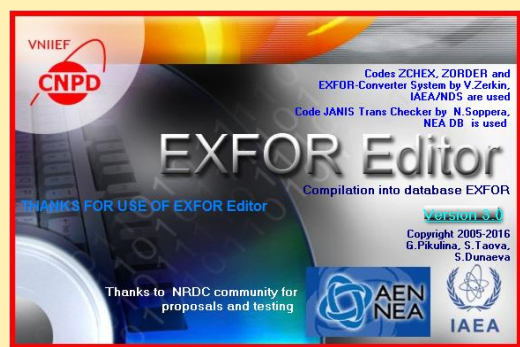
“Fusion-fission and quasifission of superheavy systems with Z=10-116 formed in Ca-48 induced reactions”.

(E.M.Kozulin,G.N.Knyazheva,I.M.Itkis,M.G.Itkis,
A.A.Bogachev,E.V.Chernysheva,L.Krupa,F.Hanappe,
O.Dorvaux,L.Stuttge,W.H.Trzaska,C.Schmitt,G.Chubarian)

SUBENT	F1270002	20151106			F1270	2	1
BIB	2	6			F1270	2	2
REACTION	(94-PU-244(20-CA-48,FUS),,SIG,,MSC)				F1270	2	3
	Capture cross section (a sum of quasi-fission, compound				F1270	2	4
	nucleus fission and evaporation residue cross section)				F1270	2	5
	is given.				F1270	2	6
SAMPLE	Layer of Pu-244 with 180-220 mu-g/cm2 thickness was				F1270	2	7
	deposited on a 40-50 mu-g/cm2 carbon backing.				F1270	2	8
ENDBIB	6	0			F1270	2	9
COMMON	2	3			F1270	2	10
MISC1-ERR	ERR-DIG				F1270	2	11
MEV	PER-CENT				F1270	2	12
	0.128	3.6			F1270	2	13
ENDCOMMON	3	0			F1270	2	14
DATA	4	4			F1270	2	15
E-EXC-CMP	MISC2-ERR	DATA	DATA-ERR		F1270	2	16
MEV	MEV	MB	MB		F1270	2	17
	26.161	3.019	1.304E+00	6.533E-01	F1270	2	18
	29.357	1.887	5.007E+00	2.508E+00	F1270	2	19
	37.069	2.076	6.732E+01	3.372E+01	F1270	2	20
	41.214	2.076	1.291E+02	6.465E+01	F1270	2	21
ENDDATA	6	0			F1270	2	22
ENDSUBENT	21	0			F1270	299999	

Software

- EXFOR-Editor



Data Table Selected Row: 27300

	EN	DATA	ERR-S
	EV	NO-DIM	NO-DIM
27272	1.75085E+5	9.77137E-1	9.76160E-1
27273	1.75293E+5	9.77137E-1	9.76160E-1
27274	1.75501E+5	9.77137E-1	9.76160E-1
27275	1.75709E+5	9.77138E-1	9.76161E-1
27276	1.75918E+5	9.77138E-1	9.76161E-1
27277	1.76127E+5	9.77138E-1	9.76161E-1
27278	1.76336E+5	9.77138E-1	9.76161E-1
27279	1.76546E+5	9.83083E-1	9.82100E-1
27280	1.76756E+5	9.77139E-1	9.76162E-1
27281	1.76966E+5	9.77139E-1	9.76162E-1
27282	1.77177E+5	9.77139E-1	9.76162E-1
27283	1.77389E+5	9.77140E-1	9.76163E-1
27284	1.77600E+5	9.77140E-1	9.76163E-1
27285	1.77812E+5	9.77140E-1	9.76163E-1
27286	1.78025E+5	9.77140E-1	9.76163E-1
27287	1.78237E+5	9.77141E-1	9.76164E-1
27288	1.78451E+5	9.77141E-1	9.76164E-1
27289	1.78664E+5	9.77141E-1	9.76164E-1
27290	1.78878E+5	9.77141E-1	9.76164E-1
27291	1.79092E+5	9.77142E-1	9.76165E-1
27292	1.79307E+5	9.77142E-1	9.76165E-1
27293	1.79522E+5	9.70881E-1	9.69910E-1
27294	1.79738E+5	9.77142E-1	9.76165E-1
27295	1.79953E+5	9.77143E-1	9.76166E-1
27296	1.80170E+5	9.77143E-1	9.76166E-1
27297	1.80386E+5	9.77143E-1	9.76166E-1
27298	1.80603E+5	9.77143E-1	9.76166E-1
27299	1.80821E+5	9.77144E-1	9.76166E-1
27300	1.81039E+5	9.83051E-1	9.82068E-1

Current Subentry
14155005

DATA

Import Sort
Paste Chart
Clear Check

Column

Add Insert
Copy Delete
Rename
Move Left Move Right
Calculations
Set Value
Set Precision

Row

Add Insert
Copy Delete
Move Up Move Down

Undo

Undo Last Action

Table

Precision for Table
Clear Data Table
Export Data Table
Add Data Table
Cancel

EXFOR-Help
Help

- EXFOR-Editor

No special installation is required now!_

ORDER	15.04.2010 08:43	
Pictures	12.02.2015 15:51	
Trans_Checker	11.01.2016 17:18	
x4plus	30.04.2014 14:47	
ZCHEX	16.04.2015 17:24	
z4a.bat	21.09.2006 09:02	1 KB
allSF3.txt	02.10.2009 16:53	3 KB
allSF5.txt	17.09.2007 10:08	1 KB
allSF6.txt	02.10.2009 16:55	1 KB
allSF7.txt	02.10.2009 16:55	1 KB
allSF8.txt	02.10.2009 16:55	2 KB
d4acc1.mdb	25.01.2016 11:55	58 104 KB
ExfData.exe	17.04.2015 18:03	4 605 KB
Help_ExfData.chm	19.08.2010 14:24	2 192 KB
importlog_seq.xsl	12.01.2016 09:49	6 KB
LEXFOR HELP.chm	01.12.2010 15:45	1 394 KB
Manual_ExfData.doc	22.05.2013 13:44	1 103 KB
MPCANS32.DLL	13.01.1995 10:10	146 KB
msvcr20.dll	23.08.2001 14:00	248 KB
OC30.DLL	21.05.1995 20:00	626 KB
qtintf.dll	15.02.2002 14:02	4 046 KB
ReadMe_ExfDatar.txt	07.10.2008 13:23	1 KB
run.bat.exe	21.09.2006 09:10	36 KB
VCF133.OCX	28.10.1995 04:03	618 KB

Previous version

ORDER	28.03.2016 10:24	
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Trans_Checker	28.03.2016 10:24	
x4plus	28.03.2016 10:24	
ZCHEX	28.03.2016 10:24	
allSF3.txt	02.10.2009 16:53	3 KB
allSF5.txt	17.09.2007 10:08	1 KB
allSF6.txt	02.10.2009 16:55	1 KB
allSF7.txt	02.10.2009 16:55	1 KB
allSF8.txt	02.10.2009 16:55	2 KB
d4acc1.mdb	25.01.2016 11:55	58 104 KB
ExfData.exe	25.03.2016 17:48	4 606 KB
Help_ExfData.chm	19.08.2010 14:24	2 192 KB
LEXFOR HELP.chm	01.12.2010 15:45	1 394 KB
Manual_ExfData.doc	22.05.2013 13:44	1 103 KB
ReadMe_ExfDatar.txt	07.10.2008 13:23	1 KB

Current version



Scanning of Journals

“Izvestiya Akademii Nauk”

“Yadernaya Fizika”

“European Physical Journal A”