



IAEA-NDS-0

Rev. 2007/08

## Index to the IAEA-NDS-Documentation Series

O. Schwerer, H.D. Lemmel

This index lists the current versions of the IAEA-NDS-reports which summarize contents and format of nuclear data libraries available from the IAEA Nuclear Data Section.

August 2007

Nuclear Data Section International Atomic Energy Agency P.O. Box 100 A-1400 Vienna Austria	e-mail: <a href="mailto:services@iaeand.iaea.org">services@iaeand.iaea.org</a> fax: (43-1) 26007 telephone: (43-1) 2600-21710 Web: <a href="http://www-nds.iaea.org">http://www-nds.iaea.org</a>
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**Note:**

The IAEA-NDS-reports should not be considered as formal publications. When a nuclear data library is sent out by the IAEA Nuclear Data Section, it will be accompanied by an IAEA-NDS-report which should give the data user all necessary documentation on contents, format and origin of the data library.

IAEA-NDS-reports are updated whenever there is additional information of relevance to the users of the data library.

For citations care should be taken that credit is given to the author of the data library and/or to the data center which issued the data library. The editor of the IAEA-NDS-report is usually not the author of the data library.

Neither the originator of the data libraries nor the IAEA assume any liability for their correctness or for any damages resulting from their use.

96/11

**Citation guideline:**

When quoting a computer-based data library in a publication it is recommended

- to give first the print reference in which the author(s) describe(s) the generation of the data,
- to give thereafter the database reference which contains the numerical data, including the version of the database,

- and then to mention the data center or the online service from which the data were received.

95/7

## Index to the IAEA-NDS-Documentation Series

O. Schwerer, H.D. Lemmel

This index lists the current versions of the IAEA-NDS-documentations which summarize contents and formats of nuclear data libraries available from the IAEA Nuclear Data Section.

### Contents

#### A. Detailed index of IAEA-NDS-Documentations

#### B. Keyword index

#### A. Detailed index of IAEA-NDS-Documentations

# is a column with the number of the Report IAEA-NDS-#

# Rev. Date Title

Author or Editor

0 07/7 07/7 **Index to the IAEA-NDS Documentation Series**

O. Schwerer, H.D. Lemmel

0 Suppl 94/3 **Index to the superseded documents** of the AEA-NDS-Documentation Series

H.D. Lemmel

1 7 96/11 **Short Guide to EXFOR**

H.D. Lemmel

2 96/11 96/11 **EXFOR/CINDA Dictionaries**, edited on behalf of the cooperating data centres by

O. Schwerer, H.D. Lemmel

The Dictionary Database is updated quarterly. The most recent version is available on tape or diskette. The 95/1 version is available as hardcopy report

3 96/11 96/11 **NDS EXFOR Manual**

H.D. Lemmel, ed.

(4) 1 82/6 **System Specification for the NDS EXFOR System**. On IBM computer, no longer used.

P.M. Attree, P.M. Smith

(5) 1 82/6 **System Specifications for the NDS Dictionary System**. On IBM computer, no longer used.

P.M. Attree, P.M. Smith

(6) 97/7 79/7 **System Specifications for the NDS Data Index System**. On IBM computer, no longer used.

P.M. Attree, P.M. Smith

[7 07/7 07/7 Index of Nuclear Data Libraries](#) (256 KB, PDF) available from the IAEA Nuclear Data Section

O. Schwerer

(8) superseded

9 1 82/3 **CINDA formats** (22 p.)

H.D. Lemmel

10 2 86/9 **ENDF/B Format**, Brief Summary

M.A. Khalil, H.D. Lemmel

See also IAEA-NDS-73, 74, 75, 76.

10/201 79/7 81/1 **Microfiche of ENDF/B-5 Summary Documentation**: ENDF-201, 3rd ed., July 1979. Compiled by R. Kinsey. Same as BNL-NCS-17541

11 5 90/9 **ENDL-84**, LLNL Evaluated Nuclear Data Library 1984 in ENDF-5 format. Contents and Documentation

D.E. Cullen, P.K. McLaughlin, H.D. Lemmel

- 12 7 83/12 **INDL/A-83**, IAEA Nuclear Data Library for Evaluated Neutron Reaction Data of Actinides, version of 1983. Contents and Documentation.  
H.D. Lemmel
- 12 7/Part 2 84/5 **Graphical plots to INDL/A-83**.
- 12 Suppl. 86/5 **INDL/A Suppl.86/5**. Evaluations by V.A. Konshin on U-235, Pu-239, 240, 241, 242.  
H.D. Lemmel
- 13 5 86/5 **ENDF/B-5 Actinides** (Rev. 86), Contents and Documentation  
H.D. Lemmel.  
(Rev.4, available as INIS microfiche)
- (14) superseded
- 15 2 86/5 **ENDF/B-5 Standards Library**. Contents and Documentation  
N. DayDay, H.D. Lemmel  
Note: More recent standards see ENDF/B-6 Standards Library, see IAEA-NDS-88
- 15/300 0 81/1 **Microfiche of ENDF-300** (Dec. 1979) Standard reference and other important nuclear data
- 15/300 Suppl. 1 81/6 **Additions to ENDF-300** as distributed 81/3/5
- (16) superseded
- 17 0 79/8 **BLA-78**, Blachot's Library of Fission Product Decay Data, Contents & Documentation  
N. DayDay (12 p.)
- (18) 4 86/11 **JENDL-2 (Rev.1)**, the Japanese Evaluated Nuclear Data Library, Contents and Documentation  
V.G. Pronyaev, H.D. Lemmel. (superseded by JENDL-3)
- 19 2 80/7 **JUELGAM-79**, Jülich Decay-Gamma Data File 1979. Summary Documentation  
N. DayDay (JUELGAM-78, Summary Documentation by  
C.S.A. da Silva and R. Paviotti Corcuera,  
see IAEA-NDS-19 Rev. 0, 79/2, INIS microfiche)
- (20) 2 79/80 **UKNDL format**. (No longer used.)  
NDS staff
- (21) 4 86/9 **KEDAK-4**, the Karlsruhe evaluated neutron data library. Brief summary of contents and format -  
H.D. Lemmel (superseded by JEF-2)
- 22 0 79/12 **PNESD** - Proton Nucleus Elastic Scattering Data, H. Leeb, Vienna, Jan. 1978. Edited by  
N. DayDay
- (23) 3 89/12 **ENDF/B-4 General Purpose File** (1974). Summary of contents and documentation  
O. Schwerer (superseded by ENDF/B-6)
- (24) 2 84/7 **ENDF/B-5 (Rev.2) Dosimetry File** Contents and Documentation -  
N. DayDay, H.D. Lemmel, V.G. Pronyaev.  
Note: For the ENDF/B-6 Dosimetry File see IAEA-NDS-100
- (25) 2 84/7 **ENDF/B-5 Fission Product Library (Rev.2)** Summary Documentation  
O. Schwerer, V.G. Pronyaev.  
(INIS microfiche) with a Supplement sheet 86/5 (superseded by ENDF/B-6)
- (26) 2 82/10 **DAMSIG81** - ECN Radiation Damage Cross-Section Library.  
H.D. Lemmel  
Superseded by DAMSIG84 documented in ECN-159
- (27) 2 82/10 **DOSCROS81** - ECN Cross-Section Library for Neutron Dosimetry.  
H.D. Lemmel  
Superseded by DOSCROS84 documented in ENC-160
- 28 0 79/2 **RESPAR3** and **RESPAR3ED** Libraries, Resonance Parameters from BNL-325 (3rd ed. 1973)  
C.S.A. da Silva, R. Paviotti Corcuera
- [29 10 02/7 ENDF utility codes release 6.13](#) (203 KB, PDF) for evaluated nuclear data files in the formats ENDF-6 and ENDF-5, by  
C.L. Dunford

Purpose: checking and maintenance of data files, retrieval of selected data and graphical plotting, et al.

- [30 0 98/6 WinMerger](#) (120 KB, PDF), Visual Merging and Retrieval of Information from ENDF Format Libraries. Summary documentation  
R. Paviotti Corcuera
- 31 3 85/6 INDL/V-85** IAEA Nuclear Data Library for various neutron reaction evaluations in ENDF/B-5 format. Contents and Documentation  
H.D. Lemmel, V. Goulo, K. McLaughlin, V.G. Pronyaev, O. Schwerer
- (32) 2 81/12 NDS Multigroup Libraries.** Contents, Summary & Documentation  
N. DayDay  
(superseded)
- [33 0 98/6 IRSEDF.](#) (97 KB, PDF) Information Retrieval System for ENDF Format Libraries. Summary documentation  
R. Paviotti Corcuera
- 34 2 84/7 EXFOR-V** ("VIEN" file), IAEA Evaluated Nuclear Data File for Various International Evaluated Neutron data in EXFOR format  
K. Okamoto, O. Schwerer, H.D. Lemmel
- 35 0 81/8 WRENDA** Input Guide  
N. DayDay, D.W. Muir
- 36 0 81/9 SPOTS4:** Group data library and computer code, preparing ENDF/B-4 data for input to LEOPARD  
Jung-Do Kim, Korea
- 37 0 81/2 ENSL and CDRL:** Evaluated nuclear structure libraries  
R.J. Howerton, (UCRL-50400 vol.23)
- 38 1 84/7 ENDF/B-5 Activation File (Rev.2)**  
V.G. Pronyaev, H.D. Lemmel  
Note: For the ENDF/B-6 Activation File see IAEA-NDS-100
- [39 13 07/03 PREPRO2007 - The 2007 ENDF Pre-Processing Codes](#) (PDF, 3 MB) by D.E. Cullen.
- 40 0 82/1 ENSDF: Physics Processing Codes; A-chain evaluations; ENSDF Dictionary.**  
J.K. Tuli, M.R. Bhat, A. Lorenz
- (41) 1 85/4** The International Reactor Dosimetry File. **IRDF-85, multigroup form**  
D.E. Cullen, P.K. McLaughlin  
Superseded by IRDF-90, see IAEA-NDS-141
- (42) 1 84/7 ENDF/B-5 Gas Production File (Rev.2)**  
V.G. Pronyaev  
(superseded by ENDF/B-6)
- 43 0 81/12** Computerprogramme zur Bearbeitung der Wirkungsquerschnitts-Dateien **KASCO** und **KARDIF.**  
H. Münzel, B. Neumann, H. Klewe-Nebenius, G. Pfennig  
(KFK Prim@rbericht 10.02.11P04B, Kachapag. EXFOR programs, of internal interest only)
- (44)** superseded
- 45 0 81/3 Thresholds and Q-values of nuclear reactions** induced by neutrons, protons, deuterons, tritons, He-3 ions, alpha particles, and photons.  
R.J. Howerton  
Note: This is the full size introduction to the data file UCRL-50400 Vol. 24 available on microfiche
- 46 0 82/4 EURLIB-LWR-45/16 and EURLIB-LWR-15/5,** two broad group libraries for LWR-shielding problems.  
V. Herrnberger, Wrenlingen
- 47 3 95/11 Atomic Masses 1995.** The 1995 atomic mass evaluation by  
G. Audi and A.H. Wapstra
- (48)** superseded
- 49 0 82/6 EURLIB-4,** summary documentation  
H.D. Lemmel
- 50 0 86/11 Fundamental Physical Constants**

E.R. Cohen, B.N. Taylor

[51 3 91/3 JNDC-FP2](#) (20 KB, PDF). The JNDC Nuclear Data Library of Fission Products, version 2, 1990  
Contents and Documentation  
O. Schwerer

52 1 90/9 **ENSDF Analysis Codes**  
A. Lorenz

53 2 87/12 **The ENDL Transmittal Format.** Brief Summary  
H.D. Lemmel, O. Schwerer

54 0 83/3 **ENDL-82:** The LLNL Evaluated Neutron Data Library of 1982. Summary of Contents.  
H.D. Lemmel

55 0 83/3 **ACTL-82:** The LLNL Evaluated Neutron Activation Cross-Section Library of 1982  
H.D. Lemmel

56 1 87/12 **ECPL-86:** The LLNL Evaluated Charged-Particle Data Library of 1986  
H.D. Lemmel

57 0 83/3 **INDL/F:** Evaluated Neutron Reaction Data Library for INTOR Fusion Neutronics Calculations (1983 version)  
V.G. Pronyaev, D.E. Cullen, P.K. McLaughlin

[58 5 01/9 "EN6-PHOTO" and "JEF-2/PHOTO" Photo-Atomic Interaction Data Library](#) (15 KB, PDF) by the Lawrence Livermore National Laboratory, USA.  
Summary documentation by H.D. Lemmel

Note: Same data library but extending up to 100 GeV see IAEA-NDS-158.

Note: An earlier version of this library was the LLL RSIC Photon Interaction Library of 1983 which was included in ENDF/B-5 and JEF-1.

59 1 85/9 **NNDC Evaluated Charged Particle Reaction.** Data Library (1975)  
S. Pearlstein. (Abstract H.D. Lemmel)

60 0 81/12 **UKHEDD-1.** Radioactive heavy element decay data for reactor calculations in ENDF/B-4 format.  
A.L. Nichols, M.F. James

[61 3 96/1 CENDL-2](#) (293 KB, PDF), Chinese Evaluated Nuclear Data Library by the China Nuclear Data Center, updated and supplemented in 1995.  
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Liang Qichang and H.D. Lemmel

62 0 85/10 **ENDF/B-5 Fission Product Yields.**  
Summary documentation of contents and format by  
O. Schwerer

(63) superseded

64 0 86/1 **GRINTACS.** Thermal neutron activation cross-sections and resonance integrals.  
E. Gryntakis. (H.D. Lemmel, ed.)

(65) superseded

66 0 85/6 **EXFOR-INDEX**  
Current index to the EXFOR data library  
M.M. Seits

Note: This EXFOR index is no longer available due to conversion to a different computer.

67 0 86/8 **RCN-3** - Evaluated Fission-Product Cross- Section Library by H. Gruppelaar, ECN Netherlands, 1982.  
H.D. Lemmel (ed.)

68 0 86/8 **RCN-2.CP** - Evaluated Neutron Cross-Section Library for 13 corrosion products, cover-gas nuclides and other nuclides in the primary cooling circuit of a fast power reactor, by H. Gruppelaar et al., ECN Netherlands, 1982.  
H.D. Lemmel (ed.)

(69) superseded

(70) superseded

71 0 96/11 **ADLIST.** Notes on C.L. Dunford's Address List System.

H.D. Lemmel, A. Scherbaum

- 72 0 94/11 **"BNL325 Nuclear Reaction Data Display Program"** - for graphical display of EXFOR and ENDF data under VMS.  
C.L. Dunford
- 73 0 86/9 **ENDF-5 Formats Manual**, Revised update pages of Nov. 1983  
B.A. Magurno, "BNL-NCS-50496 [ENDF-102], 2nd Edition Revised, Nov. 1983"
- 74 0 84/5 **ENDF-4 Formats Manual**  
Reprint of D. Garber et al., "BNL-NCS-50496 [ENDF-102], Oct. 1975"
- 75 1 86/9 **ENDF-5 Formats Manual 1984**  
Reprint of R. Kinsey, "BNL-NCS-50496 [ENDF-102] 2nd Edition, Oct. 1979" including the revision by B.A. Magurno, "2nd Edition Revised, Nov. 1983"
- 76 6 01/4 **ENDF-6 Formats Manual**.  
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- [77 0 3/01 ENDVER - The ENDF File Verification Support Package](#) (16 KB, PDF),  
by A. Trkov
- 78 0 88/3 **Codes CONV45 and CONV56 for a PC**.  
V. Goulo (Converting ENDF-4 to ENDF-5 and ENDF-5 to ENDF-6).  
D.E. Cullen, Sept. 1986, Rev. 1 June 1987
- [79 2 3/01 Program PLOT4](#) (354 KB, PDF). (Version 2001-3). Plots EXFOR data in a computation format with or without ENDF formatted data. (Note: PLOT4 does not plot ENDF formatted data alone!)
- [80 1 3/01 Program X4TOC4](#) (238 KB, PDF) (Version 2001-3). Converts nuclear data from EXFOR format to a computation format.  
D.E. Cullen, Sept. 1986
- 81 0 87/5 **Computation format computer codes X4TOC4 and PLOT4**: Implementing and testing on a Personal Computer.  
P.K. McLaughlin, May 1987
- 82 0 87/6 **Program PLOTTAB**. General plotting program.  
D.E. Cullen
- 83 0 87/6 **Implementing and testing program PLOTTAB**.  
D.E. Cullen
- 84 0 87/7 **LINTAB, HEATER and PLOTTAB code package** Computer codes for model parameters and cross-section data.  
D.E. Cullen, J.J. Smith
- 85 0 87/7 **Implementing and testing the LINTAB, HEATER and PLOTTAB code package**.  
D.E. Cullen, J.J. Smith
- 86 0 87/11 **GRAZ-87**. A data library for evaluated cross-sections and reaction rates of charged particle reactions with light elements. Z=1 to 5, by R. Feldbacher, Technical University of Graz, Austria.  
K. Okamoto (ed.)
- [87 8 03/1 DROSG-2000: Neutron source reactions](#) (55 KB) Data files with computer codes for 59 accelerator-based neutron source reactions, Version 2.2, by M. Drosg. Available [online](#) or on diskette. Supersedes earlier version DROSG-96.
- [88 4 02/2 ENDF/B-6 Standards Library 1987](#) (15 KB, PDF), by the U.S. National Nuclear Data Center. Summary of contents and documentation, with hyperlinks to the data.  
H.D. Lemmel, P.K. McLaughlin
- 89 0 87/11 **XCOM**: Photon cross-sections on a PC, version 1.2 of 87/5/9,  
by M.J. Berger and J.H. Hubbell. (H.D. Lemmel ed.)
- [90 8 94/1 BROND-2.2](#) (105 KB, PDF): USSR evaluated neutron data library of 1992 in ENDF-6 format, with revisions of 1993.  
V.N. Manokhin, A.I. Blokhin et al. (H.D. Lemmel ed.)
- [91 0 87/10 Chinese evaluated fission-product yield library](#) (852 KB, PDF), 1987.  
Wang Dao, Zhang Dongming, (H.D. Lemmel, ed.)

- 92 0 90/8 **WIMKAL-88**. The 1988 version of the WIMS-KAERI Library.  
Summary of contents - Jung-Do Kim
- 93 0 88/5 **ALICE-87** (Livermore), precompound nuclear model code, version for PC.  
M. Blann, D.E. Cullen, V. Goulo  
Note: A more recent version is ALICE-91 which should be requested from the NEA Data Bank.
- 94 0 88/5 **ICAR**-code for combinatorial calculations of level densities, version for PC.  
G. Reffo, M.W. Herman, V. Goulo
- 95 0 88/5 **EMPIRE**, pre-equilibrium/compound nuclear model code, version for PC.  
A. Marcinkowski, V. Goulo
- 96 0 89/10 **ACTIV87** - Fast neutron activation cross-section file by V.N. Manokhin et al., for 206 neutron-induced threshold reactions, in ENDF-5 format, up to 20 MeV.  
O. Schwerer (ed.)  
Graphical plots see IAEA Tech. Rep. 273 Handbook on Nuclear Activation Data (1987) pp. 305-411.
- 97 1 90/9 **ENDF/B-6 TSL1**:The ENDF/B-6 Thermal Neutron Scattering Law Library of 1990 by General Atomic.  
Summary documentation by V. Goulo, H.D. Lemmel  
Most of this library (though not all) superseded by "Release 2" of the ENDF/B-6 Thermal Neutron Scattering Sublibrary by R.E. MacFarlane, see IAEA-NDS-197.
- 98 1 87/12 **Cf-252 neutron spectrum**. The californium-252 spontaneous fission neutron spectrum evaluated by  
W. Mannhart, PTB Braunschweig. (H.D. Lemmel, ed.)
- 99 0 88/1 **STAPRE**, statistical pre-equilibrium code, and **SCAT2**, optical nuclear model code, version for PC.  
V. Goulo
- [100 11 01/11 ENDF/B-6](#). (85 KB, PDF) The U.S. evaluated nuclear data library for neutron reaction data, 1990, including revisions up to November 2001 (Last release of ENDF/B-VI)  
Summary of contents - H.D. Lemmel, P.K. McLaughlin, V.G. Pronyaev
- 101 0 91/2 **ANDEX**, a PC software assisting the nuclear data compilation in EXFOR.  
V. Osorio
- 102 0 92/4 **BRADY**. Fission-product yield and fission-neutron data for minor actinides. Data files on PC diskettes  
by M.C. Brady,R.Q. Wright, T.R. England, 1989/1991.  
Description of the PC diskettes  
by H.D. Lemmel
- 103 89-1 89/9 **EXFOR Manual**  
V. McLane, US National Nuclear Data Center.  
See also IAEA-NDS-3
- 104 1 95/7 **ENSDF**. The evaluated nuclear structure data file maintained by the U.S. National Nuclear Data Center.  
H.D. Lemmel (ed.)
- [105 3 00/6 ENDF/B-6 charged-particle sublibraries](#) (17 KB, PDF), 1999 version,  
by D. Dodder, G. Hale, LANL, and R.M. White, D.A. Resler, LLNL.  
Additions by G.M. Hale, M. Drosig, M.B. Chadwick and P.G. Young, LLNL  
This document summarizes the ENDF/B-6 sublibraries for nuclear reaction data of protons, deuterons and tritons.  
Summary by H.D. Lemmel, P.K. McLaughlin, V.G. Pronyaev
- [106 3 95/6 ENDF/B-6 FPY](#) (17 KB, PDF), The ENDF/B-6 fission-product yield sublibraries,  
by T.R. England and B.F. Rider, by NNDC 1991, including revisions up to May 1995.Two parts: one for neutron-induced fission, another for spontaneous fission.  
Summary by H.D. Lemmel
- [107 12 01/1 Index to BROND-2.2, CENDL-2.1, ENDF/B-6, JEF-2.2, JENDL-3.2, IRDF, EFF-2.4 and FENDL/E](#) (154 KB, PDF).  
H.D. Lemmel, P.K. McLaughlin
- [108 0 92/8 ENDF/B-6 decay data library](#) (12 KB, PDF).  
Summary by H.D. Lemmel

[109 03/4 03/4 CINDA Reader's Manual](#)

rev. by M.A. Kellett, NEA Data Bank

[110 02/10 02/10 JENDL-3.3](#) (812 KB, PDF). The Japanese evaluated neutron data library.

Summary of contents H.D. Lemmel, P.K. McLaughlin (ed.)

**111** 2 94/9 **"Strong gammas"**. List of strong gamma-rays emitted from radionuclides. Documentation of the PC diskette.T. Ichimiya, T. Narita and K. Kitao,  
(report JAERI-M-94-059).**112** 2 94/10 **"XG-Standards"**. A PC programme by Hartmut Lemmel presenting the "X-Ray and Gamma-Ray Standards for Detector Calibration" published in IAEA-TECDOC-619 by an IAEA Co-ordinated Research Project 1986-1990.

H.D. Lemmel (ed.)

[113 2 97/3 ENDF/B-6 high-energy data library.](#) (10 KB, PDF)

Summary - H.D. Lemmel, P.K. McLaughlin

(114) superseded

**115** 0 89/4 **Lone: Prompt gamma rays from thermal-neutron capture.**

M.A. Lone et al. (H.D. Lemmel, ed.)

**116** 0 89/4 **Tuli: Thermal-neutron capture gamma-rays.**

J.K. Tuli (H.D. Lemmel, ed.)

**117** 0 90/5 **GAMCAT**. Gamma and alpha rays from radioactive decay.Fachinformationszentrum Karlsruhe. Note: GAMCAT is for sale by FIZ; it is not available from IAEA.**118** 0 89/8 **ENSGAM89**. The ENSDF Radioactivity Database for IBM-PC and Computer Network Access.

P. Ekstrm, L. Spanier. Lund University

**119** 0 90/7 **NJOY**: A comprehensive system for the processing of ENDF formatted nuclear data. (A summary description of NJOY.)

D.W. Muir

[120 3 96/2 JEF-2.2](#) (610 KB, PDF). The evaluated neutron nuclear data library of the NEA Data Bank.

Summary of contents.

H.D. Lemmel, O. Schwerer

[121 1 94/9 JEF-2 thermal neutron scattering law data](#) (78 KB, PDF)

by J. Keinert and M. Mattes.

Brief summary of contents.

H.D. Lemmel

[122 1 94/9 JEF-2 radioactive decay data library by the NEA Data Bank](#) (34 KB, PDF).

Brief summary of contents.

H.D. Lemmel

[123 1 94/9 JEF-2 fission product yield data library by the NEA Data Bank](#) (66 KB, PDF).

Brief summary of contents.

H.D. Lemmel

**124** 0 91/4 **UKFY2**, the UK Fission Product Yield Library, version 2, 1991.

Summary documentation by M. Lammer

**125** 0 90/11 **UENDL/NAA**, the USSR evaluated nuclear data library for neutron activation analysis by V.M. Bychkov et al.

Summary documentation by A.B. Pashchenko

(126) superseded

**127** 0 93/11 **INGDB-90**. The international neutron nuclear data base for geophysics applications. Database and documentation assembled by

N.P. Kocherov, P.K. McLaughlin

**128** 2 96/2 **FENDL/E**. Evaluated nuclear data library of neutron nuclear interaction cross-sections and photon production cross-sections and photon-atom interaction cross-sections for fusion applications. Version 1.1 of Nov. 1994.

A.B. Pashchenko, H. Wienke, S. Ganesan, P.K. McLaughlin

**129** 3 96/2 **FENDL/MG**. Library of multigroup cross-sections in GENDF and MATXS format for neutron-photon transport calculations, version 1.1 of March 1995, generated by R.E. MacFarlane by processing FENDL/E1.1.



Summary documentation by A.B. Pashchenko, H. Wienke and S. Ganesan.

- 130** 0 91/4 **PEND-B6**. Cross-section data files derived from ENDF/B-6 resonance-parameter data files.  
S. Ganesan, D.W. Muir, P.K. McLaughlin
- 131** 0 92/1 **INDXENDF**, a PC code for indexing nuclear data files in ENDF-6 format, by R. Paviotti Corcuera et al.  
Summary documentation by H.D. Lemmel
- 132** 0 93/11 **ENDF/B-6 decay data**  
Brief summary (H.D. Lemmel)
- 133** 0 93/11 **ASIYAD**, a fission-product yield data library by A.F. Grashin et al. in ENDF/B6 format.  
Brief summary (H.D. Lemmel)
- 134** 0 93/3 **UKPADD-2**: UK Activation product decay data files.  
A.L. Nichols
- 135** 0 94/9 **IDGAM**: A PC code and database to help nuclide identification in activation analysis.  
R. Paviotti Corcuera, M. de Moraes Cunha, K.A. Jayanthi
- [136](#) [1](#) 95/7 **MENDL-2** (HTML, 17 KB): Neutron reaction data library for nuclear activation and transmutation at intermediate energies,  
by Yu.N. Shubin et al.  
Summary documentation by H.D. Lemmel
- 137** 2 95/7 **ADL-3**. Neutron activation data library  
by O.T. Grudzevich, A.V. Zeleneckij, A.V. Ignatjuk, A.B. Pashchenko.  
Summary documentation A.B. Pashchenko
- [138](#) [0](#) 94/7 **JENDL-3.2/FPY**, the **JENDL-3.2 fission-product yield data library** (65 KB, PDF), compiled  
by T. Nakagawa (JAERI).  
Contents and documentation. H.D. Lemmel (ed.)
- [139](#) [0](#) 93/1 **JENDL-3 gas production** (106 KB, PDF): the data library of neutron induced gas production reactions extracted from the JENDL-3 library.  
T. Nakagawa, T. Narita  
Brief summary of contents (H.D. Lemmel, H. Wienke)
- [140](#) [0](#) 93/1 **JENDL-3 dosimetry** (132 KB, PDF): the JENDL-3 sublibrary for reactor neutron dosimetry by foil activation,  
by M. Nakazawa et al.  
Brief summary of contents (H.D. Lemmel, H. Wienke)
- [141](#) [4](#) 99/3 **IRDF-90** (PDF, 21 KB), the International Reactor Dosimetry File, Version 2 of 1993. Recommended values of neutron activation cross-sections with covariance information for selected materials used for reactor neutron dosimetry by foil activation. Also selected radiation damage cross-sections and benchmark neutron spectra.  
Summary documentation N.P. Kocherov, P.K. McLaughlin
- 142** 0 92/6 **PRONDOS**, evaluations of some selected neutron activation reactions for dosimetry,  
by V.G. Pronjaev et al. 1988/1989.  
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- 143** 0 95/3 **WIND**. Evaluated neutron cross-section data up to 100 MeV for incineration of actinides. With one data file of proton-induced reactions for U-238.  
By A.Yu. Konobeyev et al., FEI Obninsk.
- 144** 0 93/12 **ESTAR, PSTAR, ASTAR**, a PC package for calculating stopping powers and ranges of electrons, protons and helium ions. Version 2.  
M.J. Berger
- 145** 1 95/5 **GDR - Giant Dipole Resonance Parameters for gamma rays**. A data file by S.S. Dietrich and B.L. Berman, USA, compiled on PC diskette by the China Nuclear Data Center.  
Summary documentation A.B. Pashchenko
- 146** 1 92/2 **POTAUS**, a PC code by F.E. Chukreev for calculating the stopping power and range for various beams in various materials.  
Summary by H.D. Lemmel
- 147** 1 92/2 **Nuclear Masses**, data file by P. Mller, Los Alamos.

Summary by D.W. Muir

**148** 2 95/2 **FENDL/A-1.1** Neutron activation cross-section data library for fusion (and other) applications. Version 1.1 of April 1993.

A.B. Pashchenko, P.K. McLaughlin.

11000 neutron activation reactions on 636 target nuclides.

**149** 0 93/9 **RED'S EDITOR**. Red's Natural Editor, a program designed to edit FORTRAN programs.

D.E. Cullen

**150** [99/3 99/3 Online nuclear data service](#) (1278 kB, PDF)

User's Manual of the online service offered by the U.S. National Nuclear Data Center (NNDC) of the Brookhaven National Laboratory, and by the IAEA Nuclear Data Section, on their major nuclear data libraries and related information.

C.L. Dunford, T.W. Burrows

**151** 0 94/2 **ERES**, a PC code for the compilation of experimental nuclear reaction data in EXFOR format.

Li Shubing, Liang Qichang, Liu Tingjin

**152** 0 94/9 **WIMSD Nb Bi**: WIMSD data for Nb and Bi derived from ENDF/B-6.1, JEF-2.2 and JENDL-3.2.

Jung-Do Kim, Choong-Sup Gil

**153** [0 02/2 Theoretical evaluation of Neutron and Proton Induced Fission Cross-Sections for Pb - Pu Targets in Energy Range 20 - 200 MeV](#) (180 KB, PDF), by S. Yavshits. Contains hyperlink to numerical data (9 proton-induced and 12 neutron-induced evaluated cross sections in ENDF-6 format).

(154) not assigned

**155** 0 94/9 **ENDF/B-5, the "ENDF/B-5 General Purpose File"** by the U.S. National Nuclear Data Center. Table of Contents. Note: Superseded by ENDF/B-6, see document IAEA-NDS-100.

**156** 0 94/9 **EADL**: Evaluated atomic data library of LLNL, USA, by S.T. Perkins, D.E. Cullen, M.H. Chen, J.H. Hubbel, J. Rathkopf, J. Scofield. Contents: Atomic subshell and relaxation data, fluorescence yields, binding energies, transition probabilities, etc.

H.D. Lemmel (ed.)

**157** 0 94/9 **EEDL**: Evaluated electron data library of LLNL, USA, by S.T. Perkins, D.E. Cullen, S.M. Seltzer.

Contents: Electron-atom interaction cross-sections and related parameters, for all elements.

H.D. Lemmel (ed.)

**158** 0 94/9 **EPDL**: Evaluated photon data library of LLNL, USA, by D.E. Cullen, M.H. Chen, J.H. Hubbell, S.T. Perkins, E.F. Plechaty, J.A. Rathkopf, J.H. Scofield. Contents: Photo-atomic cross-sections from 10 eV to 100 GeV and related parameters, photoelectric cross-sections for each shell, etc.

H.D. Lemmel (ed.)

Note: An extract from this library up to 100 MeV was prepared for ENDF/B-6 and JEF-2; see IAEA-NDS-58.

**159** 0 94/7 **Report UCRL-ID-117796**

S.T. Perkins, D.E. Cullen.

ENDL type formats for EADL, EEDL, EPDL.

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**161** 0 95/6 **NUCHART**: Chart of the Nuclides for Windows, version 1.2 Feb. 1995, by V. Osorio and H. Peraza.

This PC package primarily displays nuclear decay data from ENSDF/NUDAT.

**162** [1 98/10 PCNUDAT: A PC Nuclear Data Program](#) (PDF, 15 KB)

Robert R. Kinsey.

**163** [1 99/6 Table of Nuclear Root Mean Square Charge Radii](#), (PDF, 127 KB) evaluated by I. Angeli, Debrecen, Hungary, 1999

**164** [5 03/8 "Maslov"](#) (16 kB). Evaluated neutron reaction data for Th-232, U, Np, Pu, Am, and Cm isotopes (Update August 2003)

by V. Maslov et al, Minsk, Belarus.

Summary documentation by H.D. Lemmel, V.G. Pronyaev and O. Schwerer

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**166** 0 95/1 **FENDL/C**. Charged-particle reaction data library for fusion applications. Version 1 of Nov. 1991. Includes: D(d,n),D(d,p),T(d,n),T(t,2n), HE-3(d,p). Extracted from ENDF/B-6 and processed by R.M. White and D.A. Resler. Summary documentation by A.B. Pashchenko

**167** 0 95/1 **FENDL/D**. Decay data library for fusion (and other) applications. Version 1 of Jan. 1992. Prepared for use with the neutron activation data library FENDL/A. Summary documentation by A.B. Pashchenko

**168** 3 96/2 **FENDL/A-MCNP and FENDL/A-VITJ E**, the processed neutron activation cross-section data files for the FENDL project, generated by F.M. Mann et al. Summary documentation by A.B. Pashchenko, H. Wienke, S. Ganesan

**169** 3 96/2 **FENDL/MC**. Neutron cross-section libraries for neutron-photon transport calculations, version 1.1 of March 1995, derived from FENDL/E-1.1 by R.E. MacFarlane for use by the Monte Carlo code MCNP4A. Summary documentation: A.B. Pashchenko, H. Wienke, S. Ganesan

**170** 0 95/6 **EFF-2.4**, the European Fusion File, 1994, including revisions up to May 1995. H. Gruppelaar, for the European Fusion Programme. Summary documentation by H.D. Lemmel

**171** 1 99/1 [Neutron Metrology File NMF-90](#) (PDF, 34 KB), an integrated database and software package for neutron spectrum adjustment and radiation damage calculations on PC. E.M. Zsolnay, E.J. Szondi, H.J. Nolthenius .

**172** 0 96/10 **"Kondrashov Gammas"**. PC database for gamma-rays from radionuclides, by V. Kondrashov, for use with the code DIMEN. Summary documentation by H.D. Lemmel

**173** 0 97/3 [FENDL/A-2.0](#) (HTML, 110 KB). Neutron Activation Cross Section Data Library for Fusion Applications, version of March 1996. Contains cross section data for 13006 activation reactions for 739 target nuclides from H-1 to Cm-248. Summary documentation by A.B. Pashchenko, H. Wienke, J. Kopecky, J.-Ch. Sublet and R.A. Forrest

**174** 0 97/3 [FENDL2/A-MCNP, FENDL2/A-VITJ E and FENDL2/A-VITJ FLAT](#) (HTML, 16 KB). The processed FENDL-2 neutron activation cross-section data files. Summary documentation A.B. Pashchenko, H. Wienke

**175** 1 98/6 [FENDL/E-2.0](#) (HTML, 61 KB). Evaluated nuclear data library of neutron-nucleus interaction cross sections, photon production cross sections and photon-atom interaction cross sections for fusion applications. Summary documentation A.B. Pashchenko, H. Wienke

**176** 0 98/4 [FENDL/MG-2.0 and FENDL/MC-2.0](#) (HTML, 186 KB). The processed cross-section libraries for neutron-photon transport calculations. Summary documentation M. Herman and H. Wienke

**177** 0 97/3 [FENDL/C-2.0](#) (PDF, 28 KB). Charged-particle reaction data library for fusion applications. Version of March 1997. Data extracted from ENDF/B-6 evaluations by R.M. White and D.A. Resler, LLNL, and G.M. Hale, LANL. Summary documentation A.B. Pashchenko, H. Wienke

**178** 0 97/3 [FENDL/D-2.0](#) (HTML, 13 KB). Decay data library for fusion applications. Version of June 1996. Prepared by R.A. Forrest and processed by F.M. Mann. Summary documentation A.B. Pashchenko, H. Wienke

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**191** 0 99/12 [The Library of Evaluated and Experimental Data on Charged Particles for Fusion Application \(SaBa\)](#) (PDF, 281 KB) by A.G. Zvenigorodskij et al. Summary documentation by S.A. Dunaeva and S.M. Taova. Electronic version of handbook "Nuclear Physics Constants for Thermonuclear Fusion", INDC(CCP)-326 (1991). Available on diskettes or for downloading: [Disk1.zip \(1380 KB\)](#), [Disk2.zip \(1396 KB\)](#), [Disk3.zip \(929 KB\)](#).

**192** 0 99/9 [TLAPrfl: Package for Calculation of Depth Profile for Thin Layer Activation](#) (PDF, 15 KB, with hyperlink for downloading compressed code package) by G. Wallace. Summary of contents by V.G. Pronyaev.

[193 0 99/3 RRDF-98. Russian Reactor Dosimetry File](#) (HTML with links to TXT and PDF files) by K.I. Zolotarev, A.V. Ignatyuk, V.N. Maonkhin, A.B. Pashchenko.  
Summary documentation by A.B. Pashchenko

[194 0 99/2 Program EPICSHOW](#) (PDF, 86 KB) A Computer Code to Allow Interactive Viewing EPIC Data Libraries (Version 98-1), by D.E. Cullen.  
Summary documentation by V.G. Pronyaev, P.K. McLaughlin

[195 0 98/8 XMudat: Photon attenuation data on PC](#) (HTML, 9 KB)  
by R. Nowotny, Univ. Vienna

[196 1 01/11 EPDL97: The Evaluated Photon Data Library, '97 version](#) (PDF, 28 KB)  
by D.E. Cullen, J.H. Hubbell, L. Kissel, LLNL (USA)

[197 0 95/6 ENDF/B-6 TSL Release 2](#) (17 KB, PDF): The ENDF/B-6 thermal neutron scattering law library, release 2 of May 1995,  
by R.E. MacFarlane, LANL, released by NNDC.  
Summary documentation by H.D. Lemmel.

Supersedes the earlier version documented in IAEA-NDS-97 which, however, includes some more materials not included in the present file.

[198 0 01/2 POINT2000](#) (72 KB, PDF): A temperature-dependent ENDF/B-VI, Release 7, Cross Section Library, by D.E. Cullen. Summary documentation by P. McLaughlin

[199 1 02/3 The FOND-2.2 Evaluated Neutron Data Library](#) (125 KB, PDF): Russian library of evaluated neutron data files for generating sets of constants in the ABBN constants system, by V.N. Koscheev, M.N. Nikolaev, A.M. Tsiboulia, G.V. Savoskina. Data were selected from various Russian and foreign libraries. Contains hyperlinks to data files for 679 materials in ENDF-6 format.

[200 0 03/9 POINT2003](#) (72 KB, PDF): A temperature-dependent ENDF/B-VI, Release 8, Cross Section Library, by D.E. Cullen. Summary documentation by P. McLaughlin

**201 0 97/3 NRABASE 2.0.** Charged-particle nuclear reaction data for ion beam analysis.

By A.F. Gurbich, Obninsk, Russia

[202 0 04/4 POINT2004](#) (515 KB, PDF): A temperature-dependent ENDF/B-VI, Release 8, Cross Section Library, by D.E. Cullen. Summary documentation by P. McLaughlin

**203 0 97/3 BISERM Version 2.** Nuclear data library for evaluation of radiation effects in materials induced by neutrons of intermediate energies,  
by Yu.A. Korovin et al., Obninsk, Russia.  
This library contains hydrogen, helium-3 and helium-4 production cross sections as well as nonelastic and total displacement cross sections for neutrons in the energy range from threshold to 1 GeV, for 259 isotopes from Al-27 to Bi-209.

[204 0 98/1 MENDL-2P](#) (50 KB, PDF). Proton reaction data library for nuclear activation

by Yu.N. Shubin et al., Obninsk, Russia.

Calculated proton cross sections in ENDF-6 format for 505 nuclei (Z=13-84) for energies up to 200 MeV.

[205 0 98/7 NUDAT.](#) (PDF, 209 KB) Summary description of the NUDAT system for access to nuclear data by Charles L. Dunford and Robert R. Kinsey, National Nuclear Data Center, Brookhaven National Laboratory, USA

[206 0 00/9 EXFOR Basics](#) (PDF, 226 KB). A short guide to the Nuclear Reaction Data Exchange Format, by Victoria McLane, National Nuclear Data Center, Brookhaven National Laboratory, USA

[207 04/8 04/8 EXFOR Exchange Formats Manual](#) (PDF, 361 KB). By Victoria McLane, National Nuclear Data Center, Brookhaven National Laboratory, USA, with minor changes and updates by Otto Schwerer, IAEA Nuclear Data Section.

[208 06/1 06/1 LEXFOR \(EXFOR Compiler's Manual\)](#) (PDF, 1.1 MB). (Version January 2006) ed. by Victoria McLane, National Nuclear Data Center, Brookhaven National Laboratory, USA, Revision 2006 issued by the IAEA Nuclear Data Section

[209 03/1 03/1 Evaluated database for prompt gamma rays](#) from radiative capture of thermal neutrons by elements from Hydrogen to Zinc. (PDF, 86 KB). By R.S. Reedy and S.C. Frankle (Los Alamos, USA). Summary documentation by R. Paviotti-Corcuera

[210 03/11 03/11 Formatting of cross sections for production of diagnostic radionuclides in ENDF-6 format](#) (PDF, 68 KB) by D. Lopez Aldama. Summary documentation with hyperlink to data files.

[211 04/9 04/9 The JEFF-3.0/A Neutron Activation File](#) (PDF, 87 KB) - EAF-2003 into ENDF-6 format -. Prepared by J.-Ch. Sublet, A.J. Koning, R.A. Forrest and J. Kopecky. Summary documentation.

[212 05/1 05/1 SIGACE Manual](#) (PDF, 431 KB). Package for generating high temperature ACE files. Prepared by A.R. Sharma, S. Ganesan and A. Trkov

[213 07/8 07/8 EXFOR/CINDA Dictionary Manual](#) (PDF, 320 KB). Prepared by O. Schwerer, based on earlier work by V. McLane.

(214-247) not assigned

**248** 97/12 97/12 **SGNucDat Version 2**. Safeguards Nuclear Data for Windows. A: actinide nuclear data (decay data, selected neutron cross-section data, fission-neutron data); B: fission-product nuclear data (decay data and selected neutron cross-section data); C: fission-product yield data. - PC code  
by G. Pospischil (1996)  
displaying data compiled by N. Kocherov, M. Lammer and O. Schwerer.

(249-306) not assigned

[307 02/7 02/7 Index of Nuclear Data Libraries \(2002\)](#) available from the IAEA Nuclear Data Section. Version of 2002 (Archive). Ed. by O. Schwerer, H.D. Lemmel (re-issued July 2007) (PDF, 381 KB)

## B. Keyword Index

Note: The numbers refer to the document numbers of the IAEA-NDS-series which are explained in part A.

ACTIN-620: 63  
actinides: 12, 13, 63, 90, 100, 110, 120, 164  
actinides, up to 100 MeV: 143  
activation: 38, 64, 100, 125, 126  
ACTL-82: 55  
ADL: 137  
ALICE: 93  
ANDEX: 101  
ASTAR: 144  
Atomic data: 156  
Atomic Masses: 47, 147

Benchmark neutron spectra: 141  
BIBFP: 14  
BISERM: 203  
Blachot: 17  
BNL-325, display program: 72  
BNL-325, RESPAR: 28  
BRADY: 102  
BROND: 90  
" : index: 107

CDRL: 37  
CENDL: 61  
CENDL.GDR: 145  
Cf-252 neutron spectrum: 98  
charge radius, nuclear: 163  
Charged Particle Evaluations, LLNL: 56  
" " " NNDC: 59  
Charged-particle induced light-element  
reactions: 86, 87, 105  
Chinese evaluations: 61, 91  
CINDA Formats: 9  
CINDA Manual: 109  
codes, ENDF: 29, 39, 79  
" , nuclear model: 93, 94, 95, 99  
" , plotting: 79, 81-85  
Computation Format: 79, 80, 81

DAMSIG: 26  
decay data for detector calibration: 112  
" " for heavy elements: 13, 66  
" " for ENDF/B-6: 132  
" " for JEF-1: 122  
Diagnostic radionuclides, production data in ENDF-6 format: 210

DOSCROS: 27  
dosimetry: 24, 27, 41, 100, 141, 142  
DROSG-2000: 87

EADL: 156  
EADL format: 159  
ECPL-82: 56  
EDITOR: 149  
EEDL: 157  
EEDL format: 159  
EFF: 170  
Ekström: 118  
electron-atom interaction: 157  
EMPIRE: 95  
ENDF Format Summary: 10  
" Indexing: 131  
" Pre-Processing Codes: 39  
" Plotting: 79

ENDF-4 Format Manual: 74  
ENDF-5 Format Manual: 75, 73  
ENDF-5 Utility Programs: 29, 39, 79, 119  
ENDF-6 Format Manual: 76  
ENDF/B-3 Scattering Law: 97  
ENDF/B-4 Contents: 23  
ENDF/B-5 Contents: 10/201, 155  
" Actinides: 13  
" Standards: 15  
" Dosimetry: 24  
" Fission-Products: 25  
" Fission-Product Yields: 62  
" Activation: 38  
" Gas-Production: 42  
" Photon Interactions: 58  
" Modifications 1986: 65  
ENDF/B-6 Charged particle sublibraries: 105  
" decay data: 132  
" fission product yields: 106  
" format: 76  
" high-energy data: 113  
" index: 107  
" main library: 100  
" photo-atomic interaction: 58  
" standards: 88  
" thermal neutron scattering: 97, 197

ENDL-82: 54  
" -84: 11  
" Tr-Format: 53  
England, T.: 102  
ENSDF codes: 40, 52  
" introduction: 104  
" special data files: 111, 118  
ENSGAM: 118  
ENSL: 37  
EPDL: 58, 158  
EPDL format: 159  
EPDL97: 196  
EPICSHOW: 194  
ERES: 151  
ESTAR: 144  
EURLIB: 46, 49  
European Fusion File: 170  
EXFOR Basics: 206  
" Guide: 1  
" Dictionaries: 213  
" Manual: 207; (3, 103)  
" LEXFOR: 208  
" ANDEX: 101  
" System-Spec: 4, 5, 6  
" -V: 34  
" Index: 66  
" Computation Format: 79, 80, 81

FENDL decay data: 167, 178  
" dosimetry: 141  
" fusion reactions: 166, 177  
FENDL neutron activation  
" point data and group data: 148, 173, 174  
" for MCNP and 175 group data: 168, 174

FENDL neutron-photon transport  
   " original: 128, 175  
   " multigroup: 129  
   " for MCNP: 169  
   " for MG and MC: 176  
 FENDL2/A-MCNP: 174  
 FENDL2/A-VITJ E: 174  
 FENDL2/A-VITJ FLAT: 174  
 FENDL/A-2.0: 173  
 FENDL/C-2.0: 177  
 FENDL/D-2.0: 178  
 FENDL/E-2.0: 175  
 FENDL/MC-2.0: 176  
 FENDL/MG-2.0: 176  
 FOND-2.2: 199  
 Fission-neutron yields: 102  
 Fission-product cross-sections: 25, 51, 100, 120  
   " " decay data: 51  
   " " yields: 51, 62, 91, 102, 106, 123,  
                   124, 138  
 Fusion applications: See FENDL, EFF  
 Fusion reactions: 86, 87, 105, 166  
  
 GAMCAT: 117  
 GAMDAT (Jhlich): 19  
 gamma-rays, giant dipole res.: 145  
 Gammas from radionuclides: 111, 118, 135, 172  
 Gammas from thermal neutron capture: 115, 116  
 Gas production: 42, 139  
 GDR: 145  
 Geophysics: 127  
 Giant dipole: 145  
 GRAZ-87: 86  
 GRINTACS: 64  
 Group-data libraries: 92  
  
 ICAR: 94  
 IDGAM: 135  
 Ion beam analysis: 201  
 Index of Libraries: 7, 107  
 INDL/A: 12  
 INDL/F: 57  
 INDL/V: 31  
 INDXENDF: 131  
 INGDB-90: 127  
 Intermediate energy, MENDL: 136  
   " " , actinides: 143  
 IRDF-85: 41  
 IRDF-90: 141  
 IRSENDF: 33  
 JEF-2: 120  
 JEFF-3.0/A Neutron Activation File: 211  
   " thermal neutron scattering: 121  
   " decay data: 122  
   " fission product yield: 123  
   " photo-atomic interaction: 58  
   " index: 107  
 JENDL-2: 18  
 JENDL FisProd: 51, 138  
 JENDL-3: 110  
 JENDL-3 dosimetry: 140  
 JENDL-3 gas production: 139  
 JNDC-FP: 51  
 JUELGAM: 19  
  
 Kachapag: 43  
 KEDAK: 21  
 Kondrashov gammas: 172  
  
 LEXFOR: 208  
 Libraries: 7  
 Light-element reactions with charged particles: 86, 87  
 LLNL Photon Interaction Cross Sections: 58  
  
 "Maslov": 164  
 Masses, Atomic: 47, 147  
 Medical radioisotopes, production data in ENDF-6 format: 210

MENDL-2: 136  
MENDL-2P: 204  
Multigroup-Libraries: 32, 92  
multigroup-libraries, FENDL: 129

Narita: 111  
NDIS: 150  
neutron activation, thermal: 64  
" " , ENDF/B-5: 38  
" " , ENDF/B-6: 100  
" " , FENDL/A: 148  
" " , ADL: 137  
" " , UENDL: 125  
" " , up to 100 MeV: 136  
" " , actinides up to 100 MeV: 143  
" " , dosimetry, ENDF/B-5: 24

neutron activation, ENDF/B-6: 100  
" " , DOSCROS: 27  
" " , IRDF-85: 41  
" " , IRDF-90: 141

neutron Metrology File: 171  
neutron-source reactions: 87  
neutron spectra: 98, 141  
NJOY: 119  
NMF-90: 171  
NRABASE: 201  
NUCHART: 161  
nuclear charge radii: 163  
nuclear model codes:

ALICE: 93  
EMPIRE: 95  
ICAR: 94  
SCAT2: 99  
STAPRE: 99  
NUDAT: 150, 162, 205

Online: 150

PCNUDAT: 162  
PEGAS: see report INDC(SLK)-1  
photon-atomic interaction, LLNL: EPDL: 158  
ENDF/B-6: 58  
JEF-2: 58  
XCOM: 89  
photoneutron cross-sections: 145  
plotting programs: 79, 81-85  
PNESD: 22  
POINT2000: 198  
POTAUS: 146  
PREPRO: 39  
Prompt gamma rays: 209  
PRONDOS (Pronjaev): 142  
PSTAR: 144

Q-values: 45

radiation damage data: 141  
radius, nuclear charge: 163  
ranges (stopping power): 144  
RCN: 67, 68  
reactor dosimetry: 24, 27, 41, 100, 141, 142  
RECENT: 39  
Red's editor: 149  
resonance-integrals: 64  
resonance-parameters, giant dipole: 145  
RESPAR: 28  
RRDF-98: 193

SaBa: 191  
Safeguards: 248  
SCAT2: 99  
Scattering Law: 97, 121, 197  
scattering lengths: See report JUEL-1755  
SGNucDat: 248



SIGACE Manual: 212  
SPOTS: 36  
standards: 15, 88  
STAPRE: 99  
stopping power: 144, 146  
Strong Gammas: 111

Theoret.eval.of n-and p-induced fiss.cs: 153  
Thermal neutron activation cross-sections: 64  
Thermal neutron capture gammas: 115, 116  
Thermal neutron Scattering Law: 97, 121, 197  
thresholds: 45  
TLAPrfl (Depth Profile for Thin Layer Activation): 192  
Transmittal format: 53  
transmutation: 136, 143

UENDL/NAA: 125  
UKFY: 124  
UKHEDD: 60  
UKNDL Format: 20

"VIEN": 34

Wapstra: 47, 147  
WIMS: 92, 152  
WIND: 143  
WinMerger: 30  
WRENDA: 35

X4TOC4: 80, 81  
XCOM: 89  
XG Standards: 112  
XMUDAT: 195