

Nuclear Data and Measurements Reports

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- [**ANL/NDM-145**](#), **A Neutron Spherical Optical-Statistical-Model Code: A User's Manual**, R.D. Lawson and A.B. Smith, June 1999 (Revision I)

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- ABAREX Fortran Source – 98rev
- ABAREX Example 3.1
- ABAREX Example 3.2
- ABAREX Example 3.3
- ABAREX Example 3.4
- ABAREX Example 4.1
- ABAREX Example 4.2
- ABAREX Example 5.1
- ABAREX Example 5.2
- ABAREX Example 6.1
- ABAREX Example 6.2
- ABAREX Example 6.2a
- ABAREX Example 6.2b
- ABAREX Example 6.2c
- ABAREX Example 6.2d

- [**ANL/NDM-146**](#), **on-Destructive Assay of EBR-II Blanket Elements Using Resonance Transmission Analysis**, Raymond T. Klann and Wolfgang P. Poenitz, August 1998
- [**ANL/NDM-147**](#), **ELEMENTAL ABAREX – A User's Manual**, A.B. Smith, June 1999

The following additional text files associated with this report can be downloaded.

- ABAREX-EL Fortran Source
- ABAREX-EL Example 1
- ABAREX-EL Example 1a
- ABAREX-EL Example 1b
- ABAREX-EL Example 1c

- ABAREX-EL Example 1d
- ABAREX-EL Example 1e
- ABAREX-EL Example 1f
- ABAREX-EL Example 1g
- ABAREX-EL Example 1h
- ABAREX-EL Example 2
- ABAREX-EL Example 2a
- ABAREX-EL Example 3
- ABAREX-EL Example 4
- ABAREX-EL Example 5
- **[ANL/NDM-148](#), A Method to Construct Covariance Files in ENDF/B Format for Criticality Safety Applications**, Dimitri G. Naberejnev and Donald L. Smith, June 1999.
The following additional files associated with this report can be downloaded.
 - DE5COV.zip – ENDF/B-V tapes with calculated covariance files for isotopes/elements listed in ANL/NDM-148 supplement
 - DE5COV_GRA.zip – graphical representation of correlation matrices and fractional errors for isotopes/elements listed in ANL/NDM-148 supplement
- **[ANL/NDM-149](#), Neutrons and Antimony: Physical Measurements and Interpretations**, Alan B. Smith, July 2000
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- **[ANL/NDM-151](#), Fast-Neutrons Incident on Holmium**, Alan B. Smith, December 2000
- **[ANL/NDM-152](#), Technical Note on Dispersion Contributions to Neutron Reactions**, R.D. Lawson and A.B. Smith, April 2001
- **[ANL/NDM-153](#), Fast-Neutrons Incident on Hafnium**, Alan B. Smith, June 2001
- **[ANL/NDM-154](#), An Approach for Dealing with Large Errors**, Donald L. Smith, Dimitri G. Naberejnev, and Laura A. Van Wormer, September 2001
- **[ANL/NDM-155](#), Fast-Neutron Scattering from Elemental Rhenium**, Alan B. Smith, July 2003
- **[ANL/NDM-156](#), A Demonstration of the Lognormal Distribution**, Donald L. Smith, July 2003
- **[ANL/NDM-157](#), Fast-Neutrons Incident on Gadolinium**, Alan B. Smith, July 2004
- **[ANL/NDM-158](#), A Survey of Experimental and Evaluated Fast Neutron Helium Production Cross Section Data for Fusion Energy Applications**, Donald L. Smith, May 2004

- [**ANL/NDM-159**](#), Covariance Matrices for Nuclear Cross-Sections Derived from Nuclear Model Calculations, Donald L. Smith, January 2005
- [**ANL/NDM-160**](#), Fast-Neutrons Incident on Rotors: -Tantalum, Alan B. Smith, April 2005
- [**ANL/NDM-161**](#), Neutron Scattering from the Standard ^{197}Au , Alan B. Smith, July 2005
- [**ANL/NDM-162**](#), Evaluated Decay Data for ^{206}TI , Filip G. Kondev, December 2006
- [**ANL/NDM-163**](#), Remark on:- The Neutron Spherical Optical-Model Absorption, Alan B. Smith, January 2007
- [**ANL/NDM-164**](#), Evaluated Decay Data for ^{246}Cm , Filip G. Kondev, February 2007
- [**ANL/NDM-165**](#), Fast Neutrons, Calcium, Models and Potentials, Alan B. Smith, September 2010
- [**ANL/NDM-166**](#), A Unified Monte Carlo Approach to Fast Neutron Cross Section Data Evaluation, Donald L. Smith, January 2008
- [**ANL/NDM-167**](#), TAGS Simulations with GEANT4, Michael L. Smith, November 2010
- [**ANL/NDM-168**](#), Report on the Workshop “Decay Spectroscopy at CARIBU: Advanced Fuel Cycle Applications, Nuclear Structure and Astrophysics” 14-16 April 2011, Argonne National Laboratory, USA, M.P. Carpenter, P. Chowdhury, J.A. Clark, F.G. Kondev, C.J. Lister, A.L. Nichols, and D. Seweryniak, July 2011