



National Nuclear Data Center

www.nndc.bnl.gov

Main	Structure & Decay	Reactions	Bibliography	Networks & Links	Publications
<p>AMDC Atomic Mass Data Center, Q-value Calculator</p> <p>Covariances of Neutron Reactions</p> <p>ENSDF Evaluated Nuclear Structure Data File</p> <p>NMMSS & DoE NMIRDC Safeguards & inventory decay data standards</p> <p>NucRates MACS & Astrophysical reaction rates</p> <p>XUNDL Experimental Un-evaluated Nuclear Data List</p>	<p>Atlas of Neutron Resonances Parameters & thermal values</p> <p>CSEWG Cross Section Evaluation Working Group</p> <p>IRDF IRDF International Reactor Dosimetry and Fusion File</p> <p>NSR Nuclear Science References</p> <p>NuDat Nuclear structure & decay Data</p>	<p>CapGam Thermal Neutron Capture γ-rays</p> <p>EXFOR Nuclear reaction experimental data</p> <p>MIRD Medical Internal Radiation Dose</p> <p>Nuclear Data Sheets Nuclear structure & decay data journal, <i>Special Issues on reaction data</i></p> <p>USNDP U.S. Nuclear Data Program</p>	<p>Chart of Nuclides Basic properties of atomic nuclei</p> <p>ENDF Evaluated Nuclear (reaction) Data File, <i>Sigma</i></p> <p>Nuclear Wallet Cards Ground & isomeric states properties, <i>Homeland Security</i> version</p> <p>USNDP/CSEWG GForge Collaboration Server</p>		

National Nuclear Data Center

Nuclear Data activities started at Brookhaven National Laboratory in 1952 under the Brookhaven Neutron Cross Section Compilation Group, which changed to the Sigma Center in 1961, becoming the National Neutron Cross Section Center in 1967 and finally the NNDC in 1977, providing more than half-century of data and expertise to the world community.

The National Nuclear Data Center is the core unit of the US Nuclear Data Program, whose mission is to provide current, accurate, authoritative data for workers in pure and applied areas of nuclear science and engineering. This is accomplished primarily through the compilation, evaluation, dissemination, and archiving of extensive nuclear datasets. USNDP also addresses gaps in the data, through targeted experimental studies and the use of theoretical models.

The NNDC has provided remote electronic access to its databases and other information since 1986. Access through the web started in 1994. These days, about 4.5 million database retrievals per year are made from about 10,000 users worldwide.

Databases

EXFOR

www.nndc.bnl.gov/exfor

Experimental nuclear reaction data for incident neutrons, charged particles and photons. It contains results from more than 15,000 experiments and covers nearly all of neutron-induced reaction experimental works

ENDF

www.nndc.bnl.gov/endl

Core nuclear reaction database, mainly containing recommended neutron-induced reaction data, such as cross sections, angular distributions and spectra.

NSR

www.nndc.bnl.gov/nsr

Bibliographical nuclear physics database containing about 220,000 articles indexed according to content. It spans more than 100 years of nuclear research and currently covers about 70 journals.

XUNDL

www.nndc.bnl.gov/xundl

Experimental nuclear structure and decay data compiled by single article. Database contains 8,000 datasets for 2670 nuclides

ENSDF

www.nndc.bnl.gov/ensdf

Core nuclear structure and decay database, with recommended ground and excited state properties as well as decay information for all known nuclides. Database contains 19000 datasets for 3346 nuclides.

NuDat

www.nndc.bnl.gov/nudat2

The friendly face of ENSDF by means of an interactive nuclear chart, tables, and plots.

Publications

Nuclear Data Sheets

www.nndc.bnl.gov/nds

Journal devoted to the publication of evaluated nuclear structure and decay data. Annually, one issue is devoted to special topics on nuclear reaction data. Started in 1966 and is currently published by Elsevier.