

# Nuclear Reaction and Structure Databases of the National Nuclear Data Center

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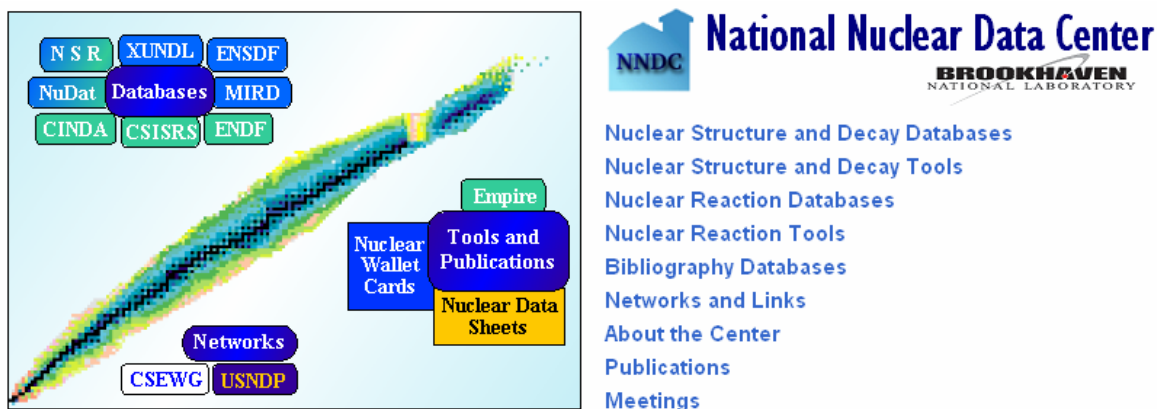
## Abstract

The National Nuclear Data Center (NNDC) intends to run a stand, in a form of major poster, for the whole duration of CGS-12. Our objective is to provide an overview of nuclear databases, related products, demonstrate new Web service and strengthen contact with the CGS community.

The NNDC collects, evaluates, and disseminates nuclear physics data for basic nuclear research and applied nuclear technologies. It coordinates the US Nuclear Data Program and Cross Section Evaluation Working Group, maintains and contributes to the nuclear structure (ENSDF, NSR, XUNDL) and nuclear reaction (ENDF, CSISRS, CINDA) databases along with several derived databases (NuDat, MIRD), and publishes Nuclear Data Sheets journal and Nuclear Wallet Cards booklet.

The NNDC migrated all databases into modern relational database software, installed new generation of servers and developed entirely new Java-based Web service. This nuclear database development means much faster, more flexible and more convenient service to all users in the United States.

Fig.1. Front page of the NNDC web service, [www.nndc.bnl.gov](http://www.nndc.bnl.gov)



The image shows the front page of the NNDC web service. On the left, there is a navigation menu with buttons for: NSR, XUNDL, ENSDF, NuDat, Databases, MIRD, CINDA, CSISRS, ENDF, Networks, CSEWG, USNDP, Nuclear Wallet Cards, Tools and Publications, and Nuclear Data Sheets. On the right, there is the NNDC logo and the text "National Nuclear Data Center" and "BROOKHAVEN NATIONAL LABORATORY". Below the logo is a list of services: Nuclear Structure and Decay Databases, Nuclear Structure and Decay Tools, Nuclear Reaction Databases, Nuclear Reaction Tools, Bibliography Databases, Networks and Links, About the Center, Publications, and Meetings.

*Stand/poster at the CGS-12, Notre Dame, September 4-9, 2005. Contact [pritychenko@bnl.gov](mailto:pritychenko@bnl.gov).*