

# User Community – USNDP Discussion Forum

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Brookhaven National Laboratory

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Introductory talk – D.F.Winchell, NNDC

# Purpose

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- Increase communication between data network and user community
- Help set direction for future products and modifications
- Find new methods of getting data into the system

# USNDP and NSDD

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- USNDP: U.S. Nuclear Data Program
  - Two working groups:
    - Structure and decay data
    - Reaction data
  - Task forces: Astrophysics, RIA, Homeland Security, *etc.*
  - Many labs and universities involved: ANL, BNL, LANL, LBL, LLNL, ORNL, TUNL, McMaster
  - Funded by DOE
- NSDD: International network of Nuclear Structure and Decay Data evaluators
  - Coordinated by IAEA
  - Responsible for evaluated data in ENSDF

# Nuclear Science References (NSR)

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- Bibliographic database containing over 180000 entries
- Approximately 4400 entries added per year
- Over 80 journals scanned on a regular basis
- Most entries indexed by nuclide, reaction, measured quantities, *etc.*
- Monthly updates to evaluators
- Web access *via* NNDC, IAEA, LBL, and others

# Structure data: ENSDF and XUNDL

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- **ENSDF**: Evaluated structure and decay data for all known nuclides (2929 at present)
  - Adopted data, plus datasets for specific reactions and decay channels
  - International network of evaluators
  - Published in *Nuclear Data Sheets* and *Nucl.Phys.A*
  - Data from ENSDF is extracted and used in other data products
- **XUNDL**: Compiled (unevaluated) datasets from recent publications
- Web access to both databases *via* NNDC, IAEA, and others