TUNL Contributions in the US Nuclear Data Program and NSDD

Nuclear Data Evaluation Program

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Nuclear Structure Evaluation
TUNL Nuclear Data Evaluation Project

- We are responsible for nuclear structure evaluation in the A=2-20 mass region
  - Energy Levels of Light Nuclei reviews published in Nuclear Physics A
  - ENSDF files for A=2-20
  - XUNDL from A=2-20
- Web interface for A=3-20 Information

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Energy Levels of Light Nuclei, A = 3 - 20

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Information on mass chains and nuclides available on this website:

3	4
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Group Info
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General Tables
Level Diagrams
Tables of E's
ENSDF
Thermal N Capt.
G.S. Decays
NuDat at BNL
Palm Pilot
Useful Links
Citation Examples

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Search:

- TUNL Nuclear Data Group: Who we are and what we do.

Our publications on Energy Levels of Light Nuclei, A = 5 - 20:

- Publications: TUNL evaluations of A = 3 - 20, and modified versions of Fay Ajzenberg-Selove's publications of A = 5 - 20, are available here in PDF format. The most recent HTML documents of A = 3 - 20, and EL diagrams of A = 4 - 20 are also available here. Some reprints and preprints may be requested by mail.

- HTML for Nuclides: HTML documents are available for individual nuclides found within the TUNL or FAS evaluations.

Resources relating to our publications:

- General Tables: General Tables in HTML for A = 5 - 10 nuclei.

- Energy Level Diagrams are available for A = 4 - 20 nuclides.

- Tables of Energy Levels: a brief listing of tables of energy levels from the most recent publication for each nuclide A = 4 - 20.

- SiteMap and Complete List of Available TUNL Documents: Trying to find a specific TUNL evaluation or preliminary report, HTML document, General Table, Update List or Energy Level Diagram? Click here for a complete list of what's available on our website.

Applications and databases relating to the A = 3 - 20 nuclides:

- ENSDF: Information for A = 2 - 20 nuclides available through the National Nuclear Data Center (NNDC) site.

- Thermal Neutron Capture Data: Summary of level and branching intensity data measured in Thermal Neutron Capture.

- Ground-State Decay Data: Summary of half-life, branching intensity, and mass excess data measured in ground state beta- and charged-particle-decay.

- NuDat at BNL: Allows to search and plot nuclear structure and nuclear decay data interactively.

- Palm Pilot Physics Page: Links to Palm applications and databases that are of interest to the Nuclear Physics community.

Helpful links:

- Links Important links to the National Nuclear Data Center, online nuclear physics journals, and other useful sites.

- Citation examples A brief listing of examples of how to format your bibliography, references or citations from the information you obtain from our website.

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Recent Evaluation Activities

- Energy Levels of Light Nuclei: A=3
  - http://dx.doi.org/10.1016/j.nuclphysa.2010.08.012
  - NPA 848 (2010) 1-74
- Evaluation of A=11 (early 2011)
  - Manuscript for “Energy Levels of Light Nuclei”
  - ENSDF File
- Other work in progress:
  - A=12 Evaluation for “Energy Levels”
  - A=13 Evaluation for “Energy Levels” (Jim Purcell)

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Recent Compilation Activities

- Committed to XUNDL (A=3-20)
  - 65 data sets (5-6/month)

- Compilation of Thermal Neutron Capture references and data

- Compilation of ground state decay & β-decay references and data

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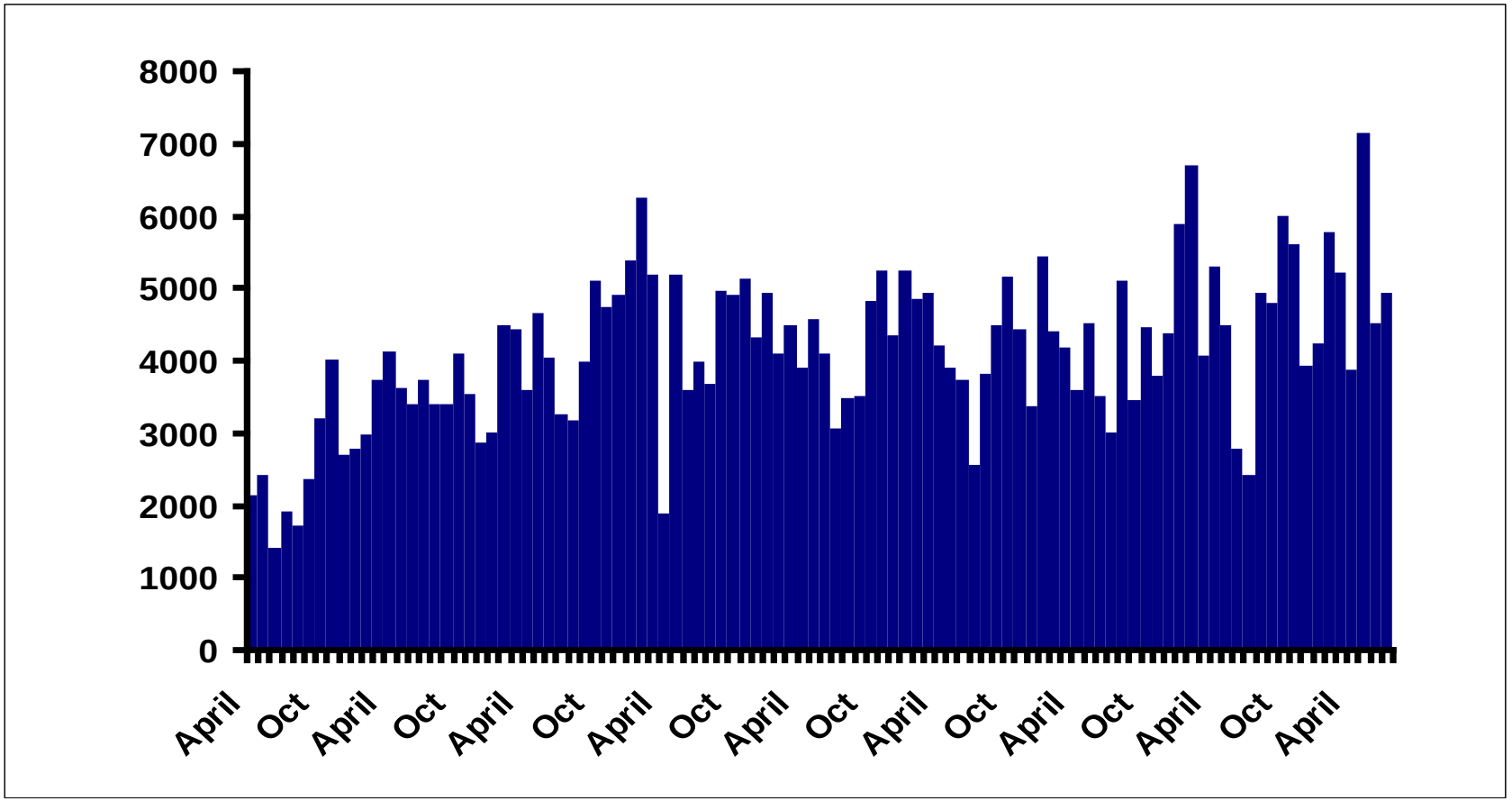
WWW (April 02 –present)



Using Analog - finding issues with excluding new search engine "robots"