

TUNL Contributions in the US Nuclear Data Program and NSDD

Nuclear Data Evaluation Program

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USNDP Effort Table

Staff	Name	Heads	FTE
Permanent	John Kelley	1.000	0.75
Professional	Grace Sheu	1.000	0.75
Contractor	Jim Purcell	1.000	0.10
total		3.000	1.60

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

TUNL Nuclear Data Evaluation

Information on mass chains and nuclides available on this website:

3	4
5	6
7	8
9	10
11	12
13	14
15	16
17	18
19	20

Group Info
Publications
HTML
General Tables
Level Diagrams
Tables of EL's
ENSDF
Excitation Functions
Thermal N Capt.
G.S. Decays
NuDat at BNL
Useful Links
Citation Examples

Home
Sitemap
Directory
Email Us

WWW TUNL



**** A = 11 Preprint (2011) available here! ****

- [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 $A = 4 - 20$.

- [Site Map 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.

- [Excitation Functions](#): Compilation of the excitation functions for various (p, X) and (α, X) reactions.

- [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 charge-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.

- [Directory](#)

- [Email us](#) with problems, questions, suggestions, etc.

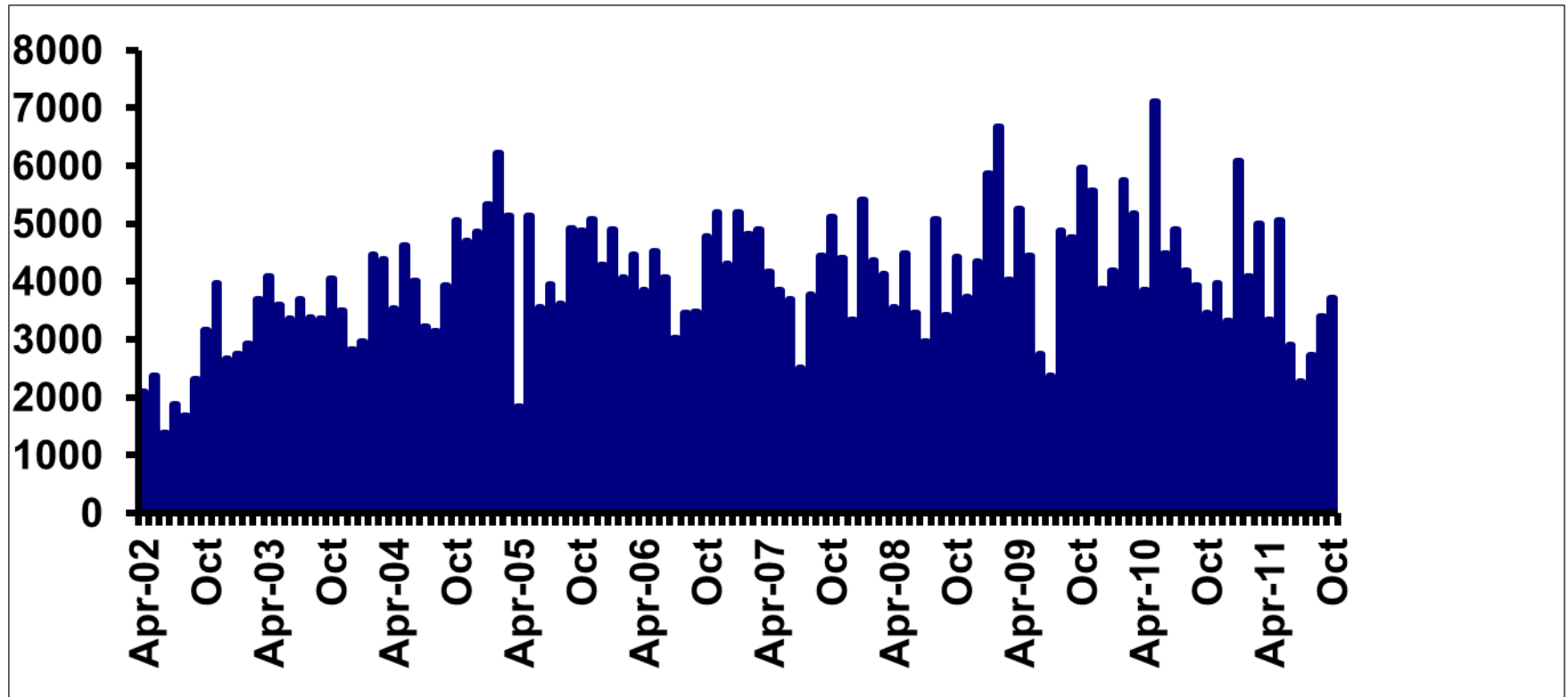
Recent Evaluation Activities

- Evaluation of $A=11$ (pre-print released)
 - 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)

Recent Compilation Activities

- Committed to XUNDL ($A=3-20$)
 - 62 data sets 2011 (5-6/month)
- Compilation of Thermal Neutron Capture references and data
- Compilation of ground state decay & β -decay references and data
- Compilation of (p,X) and (α,X) excitation functions

WWW (April 02 – present)



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