



XUNDL/ENSDF Database Update



XUNDL Metrics

FY 21

**Compiled 689 datasets
from 356 papers**

FY 22

**Compiled 623 datasets
from 312 papers**

Full database is **10090** datasets for **2819** nuclides



Contributions from:

BNL

McMaster

MSU

TUNL

ENSDF Metrics

FY 21

Evaluated 263 nuclides, 14 mass chains

FY 22

Evaluated 221 nuclides, 12 mass chains

GitLab for ENSDF tracking

Elizabeth Ricard-McCutchan > ENSDF Status

E ENSDF Status 🔔 ☆ Star 0 🍴 Fork 0

Project ID: 215

🔗 252 Commits | 🌿 1 Branch | 🏷️ 0 Tags | 📄 21.6 MB Files | 💾 21.6 MB Storage

Auto DevOps ✕

It will automatically build, test, and deploy your application based on a predefined CI/CD configuration.

Learn more in the [Auto DevOps documentation](#)

[Enable in settings](#)

main | ensdf-status / + | **Find file** | History | Web IDE | 📄 | Clone

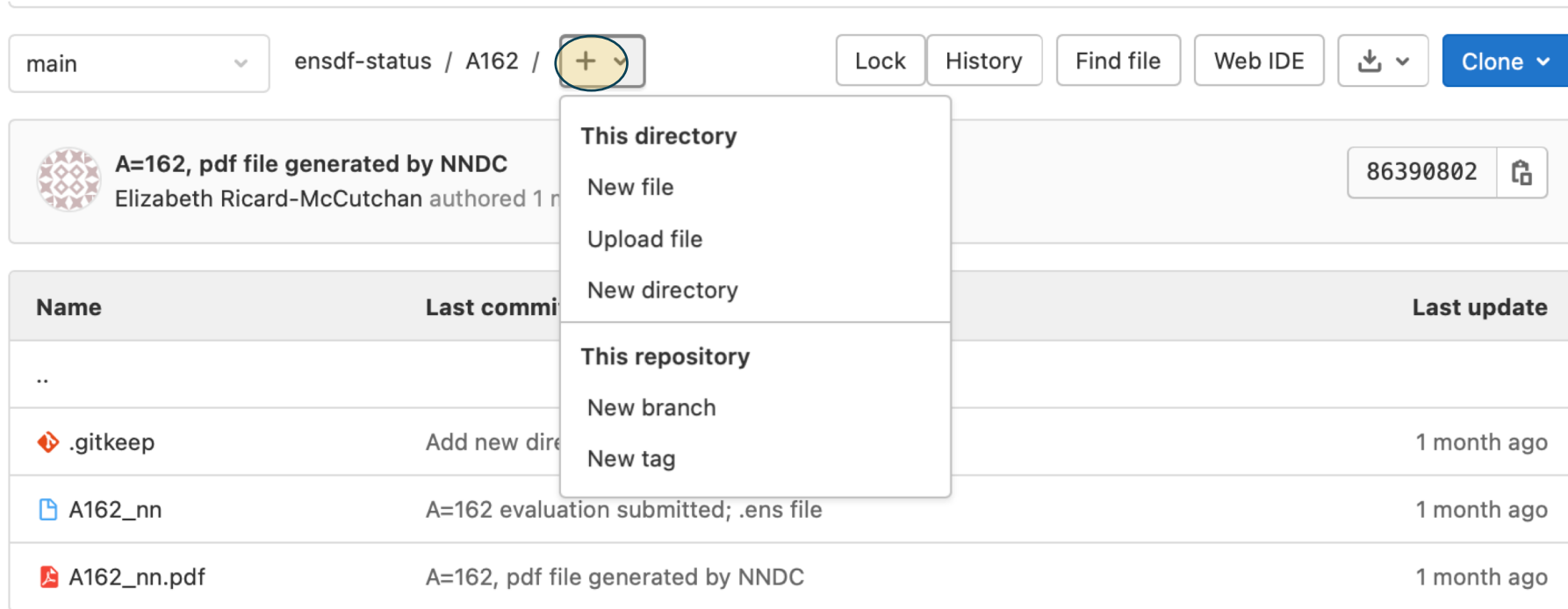
Submitted pdf file 62e7637d

📄 README | [Add LICENSE](#) | [Add CHANGELOG](#) | [Add CONTRIBUTING](#) | [Set up CI/CD](#) | [Configure Integrations](#)

Name	Last commit	Last update
📁 A100	Add new directory	1 month ago
📁 A101	Add new directory	1 month ago
📁 A102	Add new directory	1 month ago
📁 A103	Add new directory	1 month ago
📁 A104	Add new directory	1 month ago
📁 A105	Add new directory	1 month ago

- Chris has consolidated and improved the structure
- Recent submissions have been uploaded

GitLab for ENSDF Storage



The screenshot shows a GitLab repository page for 'ensdf-status / A162'. The breadcrumb navigation includes 'main', 'ensdf-status / A162 /', and a '+' button. A dropdown menu is open from the '+' button, listing options: 'This directory' (with sub-options 'New file', 'Upload file', 'New directory') and 'This repository' (with sub-options 'New branch', 'New tag'). The repository name is 'A=162, pdf file generated by NNDC' by Elizabeth Ricard-McCutchan. A commit ID '86390802' is visible. A table lists files and their last update times:

Name	Last commit	Last update
..		
.gitkeep	Add new dire	1 month ago
A162_nn	A=162 evaluation submitted; .ens file	1 month ago
A162_nn.pdf	A=162, pdf file generated by NNDC	1 month ago

- Can upload as much (versions, reviewer comments, etc) or as little as you like

GitLab for ENSDF tracking

The screenshot displays a GitLab issue board with four columns representing different stages of the ENSDF tracking process. Each column has a header with a status label, a count of issues, and a settings icon. The issues are listed in a vertical stack within each column.

Being Evaluated (27)	Under Review (13)	Post-review (13)	Editorial Review (5)
A=5 #40	A=13 #41	A=57 #8	A=24 #3
A=46 #5	A=30 #69	A=66 #12	A=137 #18
A=55 #7	A=32 #66	A=71 #25	A=141 #20
A=58 #9	A=44 #65	A=77 #63	A=201 #32
A=62 #10	A=101 #43	A=162 #15	A=242 #26
A=67 #13	A=154 #14	A=249 #16	Showing all issues
A=80 #42	A=167 #21	A=76 #23	

Issues list will be exported as .csv

Excel spreadsheet with status of mass chains will be emailed monthly (if needed)

New for FY23 ?

Do we need an automated integration system?

Over half of mass chain submissions in last 6 months have had major consistency check and FMTCHK errors

The ADVANCE Continuous Integration System

ENDF/B
VIII.dev

ENDF/B Development

The development version of the Evaluated Nuclear Data File (ENDF/B)

neutrons

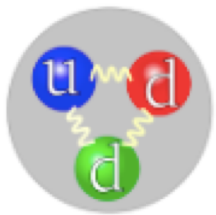
atomic

decay

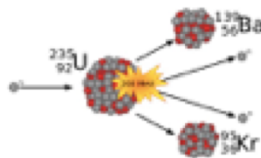
charged particles

photonuclear

Neutrons sublibraries



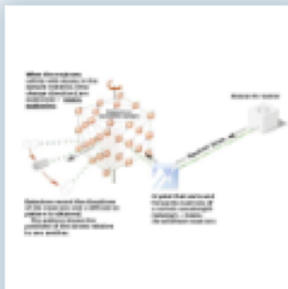
Neutrons



Neutron-induced Fission Yields



Standards



Thermal Neutron Scattering

Summary of Entire Library

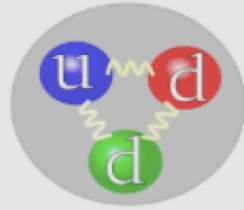


Image of neutrons from <http://wikipedia.org>

Neutrons Sublibrary

ENDF/B Development Library

- ▶ **General Information:**
 - ▶ ENDF sublib designator: 10
- ▶ **Build Status:**
 - ▶ Build status: **FAILURE**
 - ▶ Build time: 2021-11-24 15:09:48.696365
- ▶ **Revision Information:**
 - ▶ [Browse history](#)
 - ▶ [Sublibrary tracker](#)

Status	Material	MAT #	Revision #	# Tests	# Failures	# Errors	Lab.	Date	Authors
<input type="checkbox"/>	¹⁰⁶ Cd	4825	'989a1e5'	3066	0	6	IRMM,JNDC	OCT10	I.Sirakov, S.Kopecky, et al., JNDC FPND WG
<input type="checkbox"/>	¹⁰⁷ Cd	4828	'cf9e1d2'	11654	0	8	NNDC, BNL	Jul17	G. Nobre, D. Brown, M. Herman
<input type="checkbox"/>	¹⁰⁸ Cd	4831	'16d8c88'	2126	0	2	IRMM,UA,ANL	OCT10	I.Sirakov, S.Kopecky, et al., J.McCabe, et al.
<input type="checkbox"/>	¹⁰⁹ Cd	4834	'cf9e1d2'	6692	0	80	NRG	DEC15	A.J. Koning and D. Rochman
<input type="checkbox"/>	¹¹⁰ Cd	4837	'16d8c88'	2304	0	2	IRMM,UA,ANL	OCT10	I.Sirakov, S.Kopecky, et al., J.McCabe, et al.
<input type="checkbox"/>	¹¹¹ Cd	4840	'16d8c88'	3472	0	6	IRMM,JNDC	OCT10	I.Sirakov, S.Kopecky, et al., JNDC FPND WG
<input type="checkbox"/>	¹¹² Cd	4843	'16d8c88'	2142	0	2	IRMM,UA,ANL	OCT10	I.Sirakov, S.Kopecky, et al., J.McCabe, et al.
<input type="checkbox"/>	¹¹³ Cd	4846	'cf9e1d2'	7082	0	2	BNL, CNDL	MAR05	Mughabghab, J.W.Zhao, et al.,

Periodic Ta

1 H	2 He	3 Li	4 Be	5 B	6 C	7 N	8 O	9 F	10 Ne	11 Na	12 Mg	13 Al	14 Si	15 P	16 S	17 Cl	18 Ar	19 K	20 Ca	21 Sc	22 Ti	23 V	24 Cr	25 Mn	26 Fe	27 Co	28 Ni	29 Cu	30 Zn	31 Ga	32 Ge	33 As	34 Se	35 Br	36 Kr	37 Rb	38 Sr	39 Y	40 Zr	41 Nb	42 Mo	43 Tc	44 Ru	45 Rh	46 Pd	47 Ag	48 Cd	49 In	50 Sn	51 Sb	52 Te	53 I	54 Xe	55 Cs	56 Ba	57 La	58 Ce	59 Pr	60 Nd	61 Pm	62 Sm	63 Eu	64 Gd	65 Tb	66 Dy	67 Ho	68 Er	69 Tm	70 Yb	71 Lu	72 Hf	73 Ta	74 W	75 Re	76 Os	77 Ir	78 Pt	79 Au	80 Hg	81 Tl	82 Pb	83 Bi	84 Po	85 At	86 Rn	87 Fr	88 Ra	89 Ac	90 Th	91 Pa	92 U	93 Np	94 Pu	95 Am	96 Cm	97 Bk	98 Cf	99 Es	100 Fm	101 Md	102 No	103 Lr
		* Lanthanides (Lanthanoids)		57 La	58 Ce	59 Pr	60 Nd	61 Pm	62 Sm	63 Eu	64 Gd	65 Tb	66 Dy	67 Ho	68 Er	69 Tm	70 Yb	71 Lu																																																																																				
		** Actinides (Actinoids)		89 Ac	90 Th	91 Pa	92 U	93 Np	94 Pu	95 Am	96 Cm	97 Bk	98 Cf	99 Es	100 Fm	101 Md	102 No	103 Lr																																																																																				

Summary of Build Results



Image of cadmium from <http://images-of-elements.com/>

108
Cd

Neutrons Sublibrary

General Information:

- ▶ ENDF MAT designator: 4831
- ▶ Evaluated by I.Sirakov, S.Kopecky, et al., J.McCabe, et al. (IRMM,UA,ANL), OCT10
- ▶ Natural abundance: 0.89 +/- 0.03 %
- ▶ Check out Wikipedia's entry for [cadmium](#)

Build Status:

- ▶ Build status: **ERROR** ([Submit tracker item](#))
- ▶ Build time: 2021-08-10 19:17:56.742741
- ▶ Release notes: [PDF](#)

Revision Information:

- ▶ Revision SHA1: 'b5db4f0'
- ▶ Browse [history](#)
- ▶ View current [revision](#)
- ▶ Download current [revision](#)

Build Results

Revisions

ENDF Overview

ACE Overview

Resonances

Integral Quantities

$\sigma(E)$ Plots

Summary of all tests on this evaluation. Use checking code button to show/hide errors.

Code group	Status	Code	# Tests	# Failures	# Errors	Run time (sec)	Files
NNDC Codes	✓	STAN	0	0	0	0.026	STN File
	✓	STANEF	0	0	0	0.017	
	✓	CHECKR	53	0	0	0.010	
	✓	FIZCON	53	0	0	0.010	
	✓	<input type="button" value="PSYCHE"/>	137	0	0	0.017	Log
	✓	INTER	1	0	0	0.055	inter File