

1) JEFF-4T3 status





2

JEFF-4.0 Test versions







Thermal neutron induced fission of U-235 and Pu-239

At each step of the evaluation process, correlations induced mainly by the conservation laws are given and the full variance-covariance matrix can then be determined

As data points from the experimental datasets were not always compatible with each other, it was necessary to apply a "regularization" method

Conservative sorting (C)

All the datasets are used by adding 2.5% uncertainty to all data points, in order to make them compatible.

Strict sorting (S)

Instead of adding independent uncertainty, only consistent experiments are selected. Measurements that did not pass the tests per datasets and the tests per mass were excluded.

The main difference between the two methods is the uncertainty

JEFF-4.0 Fission Yields



Thermal neutron induced fission of U-235 and Pu-239

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JEFF-4.0 Fission Yields

Charles Wemple (Studsvik): identified a small normalization issue.

Fissioning System	Energy [eV]	All FPs	Ternary FPs (Z<22)	Remaining FPs
U-235 Strict	2.5300E-02	2.0022736112300E+00	1.8775140000400E-03	2.0003960972300E+00
U-235 Strict	4.0000E+05	2.0018429755493E+00	1.8431092000000E-03	1.9999998663493E+00
U-235 Strict	1.4000E+07	2.0018770898726E+00	1.8756382281893E-03	2.0000014516444E+00
U-235 Conservative	2.5300E-02	2.0022734828531E+00	1.8775140000400E-03	2.0003959688531E+00
U- Charles Wem	ole (Studsvik) ide	entified a small n	ormalization issu	ie, that has E+00
U- be	en solved but nev	w files are not on	the website yet	E+00
Ρι	They will be re	eplaced for the re	elease of T3	E+00
Pu-239 Strict	4.0000E+05	2.0023782236639E+00	2.3772294773225E-03	2.0000009941866E+00
Pu-239 Conservative	2.5300E-02	2.0132017746419E+00	2.4470890025911E-03	2.0107546856393E+00
Pu-239 Conservative	4.0000E+05	2.0023782236639E+00	2.3772294773225E-03	2.0000009941866E+00

INDEN files

- **9-F-19** (f19e80_zt9_ENDF): Based on ENDF/B-VIII with gamma emission data. Inelastic replaced by Morgan data below 1.4 MeV, AD from Elwyn-EXFOR 11441, F-19(n,2n) from IRDFF-II
- **14-Si-28,29,30** (ORNL+IAEA): including the background contribution due to direct capture in the RRR
- 26-Fe-56 (fe56e80X29r67b): fe56e80X29r67 + MT103 and covariances. It also includes the Cr-53 production cross section in MF10

INDEN - International Nuclear Data Evaluation Network

Network managed by the International Atomic Energy Agency

Coordinators: R. Capote, P. Dimitriou, and G. Schnabel

Recap of all INDEN files

- 5-B-10,11
- · 8-0-18
- 9-F-19
- 14-Si-28,29,30
- 24-Cr-50,52,53,54
- 25-Mn-55
- 26-Fe-54,56,57
- 29-Cu-63,65

All except:

- · 8-0-16
- 57-La-139
- 92-U-233,235,238
- 94-Pu-239,240,241

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Completion of gamma cascade

- 11-Na-24
- 12-Mg-26,27
- 13-Al-26,27
- 15-P-31,32
- 16-S-32,33,34,35
- 18-Ar-38
- 33-As-73
- 34-Se-77
- 44-Ru-100
- 53-I-131
- 55-Cs-134
- 56-Ba-132

- 61-Pm-149,151
- 62-Sm-150,151
- 63-Eu-152,155
- 64-Gd-152,153,154
- 66-Dy-160,162,165
- 68-Er-168
- 76-0s-189
- 80-Hg-200
- 88-Ra-223,225
- 90-Th-229
- 93-Np-237

Cédric Jouanne: Completion of gamma decay cascade for inelastic scattering (MF12 and MF14)

Updates



- 8-0-18 (Tim Ware): normalize the distributions in MF=5 for MT=9,16,17,22,28,33
- 18-Ar-36,38 (Dimitri Rochman, future TENDL-2023): it contains a new RRR part which agrees better with natAr(n, tot)
- **45-Rh-105** (Gilles Noguère): New correction resonance parameters (MF2/MT151)
- 90-Th-227
- 90-Th-229
- 94-Pu-242
- 95-Am-242m
- 95-Am-243
- 98-Cf-251
- Restore 8-groups delayed neutron fraction

New evaluations

- **23-V-51** (DR, AK, SVDM): new evaluation that solves the problem of hmf25
- 54-Xe-124,126,128,129,130,131,132,134,136 (GN): New RRR file (MF=2, MT=151) using JRC-Geel data
- 61-Pm-147 (DB): New MF9/MT102 including more fluctuations vs incident-energy for this parameter. To
 account for these fluctuations (even for the JEFF-4T2 file) in current transport/cycle codes where a unique
 value is often requested, the averaged isomeric ratios must be obtained by folding MF9/MT102 by MF3/MT102
 reaction rates.
- 83-Bi-209 (AS): file based on JENDL-5, with modified (n,a) cross section (sections MF3/MT107 and MF3/MT=800-849) adjusted to TENDL-2021 (see JEFDOC-2171). It also contains more complete covariance information than JEFF-3.3/JEFF-4T2. Finally, the neutron capture branching ratio of JENDL-5 results in higher 210Po production than JEFF-3.3 which is advantageous from safety point of view.
- 92-U-236 (OB): Include the suggested revision of the fission continuum xs between 4 keV up to 2MeV.
 Caveat: Present MF33 contains covariance data from JENDL4 and is not updated following the revision of the RRR. This section file should be superseded by an updated covariance calculation. This task is ongoing
- **93-Np-238** (DR): Future TENDL-2023 with updated RRR, following the recommendations from Erwin from SCK
- TSL HinH2O (JIMD)
- TSL HinCH2 (KR)
- TSL HinC5O2H8 (KR)

Major Actinides



Major Actinides





2) Integrated, Automated, and Reproducible Nuclear Data Processing at the NEA



Upload ENDF-6 file

() 8 jobs for JEFF-4T2.	2 in 23 minutes and 59 seconds (qu	eued for 2 seconds)		
P latest				
- O- cd0e8c84 [^e]				
\$\$ No related merge req	uests found.			
Pipeline Needs Jobs	8 Tests 0			
verification_for	basic_processing	create_ace	create_other_for	recap
	FUDGE	⊘ NJOY_ace		⊘ collect_artifacts ♀
FIZCON	NJOY_basics			
PSYCHE	PREPRO			

The main YAML (pipeline definition) is maintained in its own repository

After every commit, the pipeline is automatically triggered

The pipeline is identical for all isotopes



Codes are built into Docker images, stored in the Harbor, and pulled by the pipeline



For further information about AMPX processing, contact andrew.holcomb@oecd-nea.org

The NEA Pipeline was used to process JEFF-4T2

did not include scripts to process Thermal Scattering Data.

The TSL processing has been recently added

TSL Repository

Data Bank > | · · · | > Isotopes > tsl_H_H20 tsl_H_H2O ⊕ D ~ % Fork 0 B 🕁 Star 0 Project ID: 1133 🕃 -0- 4 Commits 🖇 1 Branch 🖉 0 Tags 🗔 641.6 MB Project Storage * Upload ENDF-6 file da1530ba [(~) FOLIGNO Daniela, NEA/DB authored 2 weeks ago tsLH_H20 / + ~ JEFF 🗸 Find file Web IDE ± ~ Clone ~ 🖹 README CI/CD configuration Add LICENSE Add CHANGELOG
 ■ Add CONTRIBUT ING Add Wiki Oconfigure Integrations Add Kubernetes cluster Last commit Name Last update 🤟 .gitlab-ci.yml Upload YAML file 2 weeks ago M README.md Upload README.md 2 weeks ago tsl_H_H2O.txt Upload ENDF-6 file 2 weeks ago

TSL pipeline

passed Pipeline #9075 triggered 2 weeks ago by FOLIGNO Daniela, NEA/DB
Upload ENDF-6 file
() 4 jobs for JEFF in 77 minutes and 16 seconds (queued for 36 seconds)
P (latest)
- C- da1530ba (^A)
\$> No related merge requests found.
Pipeline Needs Jobs 4 Tests 0
verification_fo basic_processing
Checkr
✓ fizcon

TSL pipeline

Data Bank > [....] > Isotopes > tsLH_H2O > Jobs > #33695

Øp	asse	Job NJOY_for_TSL triggered 2 weeks ago by of FOLIGNO Daniela, NEA/DB
		Search job log Q 🖉 👬 🚦
		Running with gitlab-runner 11.2.0 (11.2.0) on Databank_ubuntu_20.04_generic zEpMj8f6
		Using Docker executor with image registry.oecd-nea.org/nds/njoy2016:v71_ubuntu-20
		Pulling docker image registry.oecd-nea.org/infra/docker-registry/gitlab-runner-helper:11.2.0
		using docker image sna256:ff853cacff1d70ab6fae1cc8c495d8d8d79b7b9cb1dbbe8b2592c77e7161a38c for registry.oecd-nea.org/infra/docker-registry/gitlab-runner-nelp er:11.2.0
		Pulling docker image registry.gecd-nea.org/nds/njoy2016:v71 ubuntu-20
		Using docker image sha256:5dc6f46343f53473c0aba1a63daccf5beeccf129a03e24f869886c9801fb94d4 for registry.oecd-nea.org/nds/njoy2016:v71_ubuntu-20
~		Running on runner-zEpMj8f6-project-1133-concurrent-1 via runndslin01
~		Cloning repository for JEFF with git depth set to 10
	11	Cloning into '/builds/databank/nds/jeff/evaluations/isotopes/tsl_H_H2O'
	12	Checking out da1530ba as JEFF
	13	Skipping Git submodules setup
~	17	<pre>\$ git clonebranch add_tsl http://gitlab-ci-token:\${CI_JOB_TOKEN)@git.oecd-nea.org/databank/nds/jeff/evaluations/processing-pipeline 01:14:49</pre>
		Cloning into 'processing-pipeline'
	19	warning: redirecting to <u>http://git.oecd-nea.org/databank/nds/jeff/evaluations/processing-pipeline.git/</u>
		<pre>\$ export PYTHONPATH='./processing-pipeline/scripts'</pre>
	21	<pre>\$ export PATH_TSL_TABLE=processing-pipeline/TSL_parameters.csv</pre>
	22	\$ export ISOTOPE
	23	<pre>\$ export ASSOCIATED_ISOTOPE=`python3 -c "import functions_njoy; functions_njoy.get_associated_isotope(\"\${PATH_TSL_TABLE}\")"`</pre>
		<pre>\$ echo "The isotope under consideration is \${ISOTOPE} and the associated isotope is \${ASSOCIATED_ISOTOPE}."</pre>
	25	The isotope under consideration is tsl_H_H2O and the associated isotope is 1-H-1g.
		<pre>\$ git clone <u>http://gitlab-ci-token:</u>\${CI_JOB_TOKEN}@git.oecd-nea.org/databank/nds/jeff/evaluations/isotopes/\${ASSOCIATED_ISOTOPE}</pre>
	27	Lioning into 'I-H-1g'
		t on d/ISOTORE) tot taread
	30	<pre>\$ cp \$[ISUIVE_].CL Lapes4 \$ cp \$[ASSOCTATED ISOTODE] /\$[ASSOCTATED ISOTODE] +x+ +ana30</pre>
	31	<pre>\$ cf \${ASSOCIATED_ISSOCIATED</pre>
	32	njov 2016.67 26Mav22 03/31/23 16:10:52
	33	*****
		moder 0.0s
	35	reconr 0.0s

TSL pipeline

Data Bank > [....] > Isotopes > tsLH_H2O > Jobs > #33695

🕝 pass	Job NJOY_for_TSL triggered 2 weeks ago by 🗱 FOLIGNO Daniela, NEA/DB	
		Search job log Q 🖉 👬 🤹
1 2 3 4 5 6 6 7 7 8 8 10 11 12 13 3 7 17 18 19 20 21 22	<pre>Running with gitlab-runner 11.2.0 (11.2.0) on Databank_ubuntu_20.04_generic zEpMj8f6 Using Docker executor with image registry.oecd-nea.org/nds/njoy2016:v71_ubuntu-20 Pulling docker image registry.oecd-nea.org/infra/docker-registry/gitlab-runner-helper: Using docker image sha256:ff853cacff1d70ab6fae1cc8c495d8d8d79b7b9cb1dbbe8b2592c77e7161 er:11.2.0 Pulling docker image registry.oecd-nea.org/nds/njoy2016:v71_ubuntu-20 Using docker image sha256:5dc6f46343f53473c0aba1a63daccf5beeccf129a03e24f869886c9801fb Running on runner-zEpMj8f6-project-1133-concurrent-1 via runndslin01 Cloning repository for JEFF with git depth set to 10 Cloning into '/builds/databank/nds/jeff/evaluations/isotopes/tsl_H_H20' Skipping Git submodules setup \$ git clonebranch add_tsl http://gitlab-ci-token:\${CI_300_TOKEN}@git.oecd-nea.org/databank/ Cloning into 'processing-pipeline' warning: redirecting to http://gitlab-ci-token:\${CI_300_TOKEN}@git.oecd-nea.org/databank/ setup into 'processing-pipeline' warning: redirecting to http://gitlab-ci-token:setup.setu</pre>	11.2.0 Ra38c for registry.oecd-nea.org/infra/docker-registry/gitlab-runner-help 094d4 for registry.oecd-nea.org/nds/njoy2016:v71_ubuntu-20 08:02 08:02 08:04 (nds/jeff/evaluations/processing-pipeline 01:14:49 Ang-pipeline.git/
23 24 25 26 27	<pre>\$ export ASSOCIATED_ISOTOPE= python3 -c "import functions_njoy; functions_njoy.get_associated</pre>	A script retrieves what is the major scattering atom bound in the TSL evaluation (e.g. H bound in H2O)
28 29 30 31 32 33 34	<pre>warning: redirecting to <u>http://git.oecd-nea.org/databank/nds/jeff/evaluations/isotopes</u> \$ cp \${ISOTOPE}.txt tape34 \$ cp \${ASSOCIATED_ISOTOPE}/\${ASSOCIATED_ISOTOPE}.txt tape30 \$ python3 processing-pipeline/scripts/run_njoy_tsl.py "\${ISOTOPE}" "\${ASSOCIATED_ISOTOPE}" "\${ njoy 2016.67 26May22 03/31/23 16:10:52 txtxtxtxtxtxtxtxtxtxtxtxtxtxtxtxtxt</pre>	;/1-H-1g.git/ (PATH_TSL_TABLE)"

TSL Parameters

		column 1	column 2	column 3	column 4	column 5		
Data Bank >	1	TSL file	Associated Isotope	TNAME	MTI	NBIN		
	2	tsl_Al_Al2O3	13-Al-27g	asap	221	32		
Spassed Job NJOY_for_TSL triggered 2 weeks ago by B FOLIGNO Daniela,	3	tsl_4-Be	4-Be-9g	Be	231	16		
	4	tsl Ca CaH2	20-Ca-40g	cacah2	249	16		
	5	tsl D D2O	1-H-2a	dd2o	228	32		
	6	tsl ortho-D	1-H-2a	orthod	221	32		
1 Running with gitlab-runner 11.2.0 (11.2.0)	7	tsl para-D	1-H-2a	parad	221	32		
2 on Databank_ubuntu_20.04_generic zEpMj8f6	8	tsl Graphite	6-C-12a	graph	229	16		
3 Using Docker executor with image registry.oecd-nea.org/nds/njo	q	tsl H CaH2	1-H-1a	hcah2	249	16		
4 Pulling docker image registry.oecd-nea.org/infra/docker-regist	10		1-H-1g	hch2	273	16		
5 Using docker image sha256:ff853cacff1d70ab6fae1cc8c495d8d8d79b en:11 2 0	11		1-H-1g	hhla	221	16		
6 Pulling docker image registry.gecd-nea.org/nds/njov2016:v71 ub	12		1 U 1a	hico	222	22		
7 Using docker image sha256:5dc6f46343f53473c0aba1a63daccf5beccc	12		1-II-IIg	mee	221	22		
✓ 8 Running on runner-zEpMj8f6-project-1133-concurrent-1 via runnd	13	tsi_mesi-Phil	1-H-1g	mesi	221	32		
✓ 10 Cloning repository for JEFF with git depth set to 10	14	tsi_ortno-H	I-H-Ig	ortnon	221	32		
11 Cloning into '/builds/databank/nds/jeff/evaluations/isotopes/t	15	tsl_para-H	1-H-1g	parah	221	32		
12 Checking out da1530ba as JEFF	16	tsl_Tolue-Phll	1-H-1g	tol	221	32		
13 Skipping Git submodules setup	17	tsl_H_ZrH	1-H-1g	hzrh	225	16		
✓ 17 \$ git clonebranch add_tsl http://gitlab-ci-t/ken:\${CI_JOB_TOKEN}€	18	tsl_24-Mg	12-Mg-24g	mg24	249	16		
18 Cloning into 'processing-pipeline'	19	tsl_O_Al2O3	8-O-16g	osap	221	32		
19 warning: redirecting to <u>http://git.oerd-nea.org/databank/nds/j</u>	20	tsl_O_D2O	8-O-16g	od2o	222	32		
20 \$ export PYTHONPATH='./processing-pipe/ine/scripts'	21	tsl_Si	14-Si-28g	sili	221	32		
21 \$ export TSOTOPF								
<pre>23 \$ export ASSOCIATED_ISOTOPE=`rython3 -c "import functions_njoy; funct</pre>	ions_njo	y.get_associated_isc	tope(\"\${PATH_TSL_TABLE}\")					
24 to the "The instance and a consideration is ((corone) and the association		The second se	ISOTOPE}."					
21 The isotope under consideration is tsl_H_H2O and the associated	isotope	e is 1-H-1g.						
<pre>26 \$ git clone <u>http://gitlab-ci-token:</u>\${CI_JOB_TOKEN}@git.oecd-nea.org/d</pre>	atabank/	nds/jeff/evaluations	/isotopes/\${ASSOCIATED_ISO1	TOPE }				
27 Cloning into '1-H-1g'								
28 warning: redirecting to <u>http://git.oecd-nea.org/databank/nds/je</u>	ff/evalu	<u> Jations/isotopes/1-</u>	<u>H-1g.git/</u>					
29 \$ cp \${ISOTOPE}.txt tape34								
31 \$ nuthon3 nuncescing_nineline/scrints/nun_ninu_tsl_nu_"\$/TSOTOPE\" "\$	INSSOCTA	TED TSOTOPEL" Th	e table conta	ins the r	arameters			
32 njoy 2016.67 26May22 03	32 niov 2016.67 26/lav22 $03/31/23$ 16:10:52							
33 ************************************	******	th	at cannot be	retrieved	i from the			
34 moder		0.0s ev	aluation itsel	f				
35 reconr		0.0s						

TSL Parameters

				column 1	column 2	column 3	column 4	column 5
Data Bank > · · ·] > Isotopes > tsLH_H2O > Jobs > ·	#33695		1	TSL file	Associated Isotope	TNAME	MTI	NBIN
			2	tsl_Al_Al2O3	13-Al-27g	asap	221	32
passed Job NJOY_for_TSL triggered 2 we	eeks ago by 🐇	FOLIGNO Daniela,	3	tsl_4-Be	4-Be-9g	Be	231	16
			4	tsl_Ca_CaH2	20-Ca-40g	cacah2	249	16
			5	tsl_D_D2O	1-H-2g	dd2o	228	32
			6	tsl_ortho-D	1-H-2g	orthod	221	32
1 Running with gitlab-runner 11.2	.0 (11.2.0)		7	tsl_para-D	1-H-2g	parad	221	32
2 on Databank_ubuntu_20.04_gene	ric zEpMj8f6		8	tsl_Graphite	6-C-12g	graph	229	16
3 Using Docker executor with image	e registry.oe	cd-nea.org/nds/njo	9	tsl_H_CaH2	1-H-1g	hcah2	249	16
 Polling docker image registry.or Using docker image sha256.ff853. 	cacff1d70ab6f	ae1cc8c495d8d8d79b	10	tsl_H_CH2	1-H-1g	hch2	221	16
er:11.2.0			11	tsl_H_H2O	1-H-1g	hh2o	222	16
6 Pulling docker image registry.or	ecd-nea.org/n	ds/njoy2016:v71_ub	12	tsl_H_lce	1-H-1g	hice	221	32
7 Using docker image sha256:5dc6f	46343f53473c0	aba1a63daccf5be.cc	13	tsl_Mesi-PhII	1-H-1g	mesi	221	32
8 Running on runner-zEpMj8f6-proj	ect-1133-conc	urrent-1 via runnd	14	tsl_ortho-H	1-H-1g	orthoh	221	32
 10 Cloning repository for JEFF with g 	it depth set t	o 10	15	tsl. para-H	1-H-1g	parah	221	32
Table 25: Conventional values for the therm	nal MT nun	bers (MTI and MT	E) used i	in ACER Phll	1-H-1g	tol	221	32
and THERMR for ENDF/B-VII					1-H-1g	hzrh	225	16
					12-Mg-24g	mg24	249	16
Thermal Material	MTI Value	MTE Value		D3	8-O-16g	osap	221	32
H in H_2O	222)	8-O-16g	od2o	222	32
D in D ₂ O	228	222			14-Si-28g	sili	221	32
Be metal Crassita	231	232						
Bonzino	229	230		ed is	sotope(\"\${PATH_TSL_TABLE}\")			
Zr in ZrH	221	236		IATE	D_ISOTOPE}."			
H in ZrH	225	226						
Be(BeO)	233	234		atio	ns/isotopes/\${ASSOCIATED_ISOT	OPE}		
O(BeO)	237	238						
H in Polyethylene	223	224		pes/1	<u>1-H-1g.git/</u>			
$U(UO_2)$	241	242						
$O(UO_2)$	239	240		"\$(P)	ATH TSL TABLE}"			
Al	243	244						
Fe	245	246						

35 reconr...

Temperatures

List of temperatures (K) in the TSL file:
547 273.15 275.0 280.0 283.6 285.0 290.0 293.6 295.0 300.0 305.0 310.0 315.0 320.0 323.6 325.0 330.0 335.0 340.0 345.0 350.0 355.0 360.0 36
5.0 370.0 373.6 375.0 380.0 385.0 390.0 395.0 400.0 405.0 410.0 415.0 420.0 423.6 425.0 430.0 435.0 440.0 445.0 450.0 455.0 460.0 465.0
470.0 473.6 475.0 480.0 485.0 490.0 495.0 500.0 505.0 510.0 515.0 520.0 523.6 525.0 530.0 535.0 540.0 545.0 550.0 555.0 560.0 565.0 570.
0 573.6 575.0 580.0 585.0 590.0 595.0 600.0 605.0 610.0 615.0 620.0 623.6 625.0 630.0 635.0 640.0 645.0 647.1 650.0 700.0 750.0 800.0 8
50.0 900.0 950.0 1000.0

548 This TSL has 94 temperatures and it must be processed in 5 rounds

Data Bank > > Isotopes > tsLH_H2O > Jobs > #33695 > Artifacts							
🕝 passed] Job #33695 in pipeline #9075 for da1530ba from JEFF by 🄯 FOLIGNO Daniela, NEA/DB 2 weeks ago							
Artifacts / njoy_tsl		ط Download artifacts archive					
Name	Size						
B							
🔁 ace-dir							
🖻 graphs							
🗅 inout							
🔁 library-c							
En pendf							

THERMR expects the requested temperature T to be one of the temperatures included in the ENDF-B thermal file

List of temperatures (K) in the TSL file:

547 273.15 275.0 280.0 283.6 285.0 290.0 293.6 295.0 300.0 305.0 310.0 315.0 320.0 323.6 325.0 330.0 335.0 340.0 345.0 350.0 355.0 360.0 36 5.0 370.0 373.6 375.0 380.0 385.0 390.0 395.0 400.0 405.0 410.0 415.0 420.0 423.6 425.0 430.0 435.0 440.0 445.0 450.0 455.0 460.0 465.0 470.0 473.6 475.0 480.0 485.0 490.0 495.0 500.0 505.0 510.0 515.0 520.0 523.6 525.0 530.0 535.0 540.0 545.0 550.0 555.0 560.0 565.0 570. 0 573.6 575.0 580.0 585.0 590.0 595.0 600.0 605.0 610.0 615.0 620.0 623.6 625.0 630.0 635.0 640.0 645.0 647.1 650.0 700.0 750.0 800.0 8 50.0 900.0 950.0 1000.0

548 This TSL has 94 temperatures and it must be processed in 5 rounds

Data Bank > > Isotopes > tsl H H2O > .lobs > #33695 > Artifacts		
	Data Bank > > Isotopes > tsLH_H2O > Jobs > #33695 > Artifacts	
Opassed Job #33695 in pipeline #9075 for da1530ba from JEFF by #	FC Opassed Job #33695 in pipeline #9075 for da1538ba from JEFF by SFOLIGNO D	Daniela, NEA/DB 2 weeks ago
Artifacts / njoy_tsl	Artifacts / njoy_tsl / library-c	ط Download artifacts archive
	Name	Size
Name	₽	
<u>۵.</u>	hh2o.00_273.15_p.asc	2.46 MB
Passa dir	hh2o.01_275.0_p.asc	2.46 MB
	hh2o.02_280.0_p.asc	2.46 MB
🔁 graphs	🖹 hh2o.03_283.6_p.asc	2.46 MB
🗅 inout	hh20.04_285.0_p.asc	2.46 MB
Palibranuco	hh2o.05_290.0_p.asc	2.46 MB
	hh2o.06_293.6_p.asc	2.46 MB
C pendf	B hh2o.07_295.0_p.asc	2.46 MB
	🖹 hh2o.08_300.0_p.asc	2.46 MB
	hh2o.09_305.0_p.asc	2.46 MB
	hh2o.10_310.0_p.asc	2.46 MB
	hh2o.11_315.0_p.asc	2.46 MB
	hh2o.12_320.0_p.asc	2.46 MB
ACE files	B hh2o.13_323.6_p.asc	2.46 MB
	hh2o.14_325.0_p.asc	2.46 MB

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List of temperatures (K) in the TSL file:

547 273.15 275.0 280.0 283.6 285.0 290.0 293.6 295.0 300.0 305.0 310.0 315.0 320.0 323.6 325.0 330.0 335.0 340.0 345.0 350.0 355.0 360.0 36 5.0 370.0 373.6 375.0 380.0 385.0 390.0 395.0 400.0 405.0 410.0 415.0 420.0 423.6 425.0 430.0 435.0 440.0 445.0 450.0 455.0 460.0 465.0 470.0 473.6 475.0 480.0 485.0 490.0 495.0 500.0 505.0 510.0 515.0 520.0 523.6 525.0 530.0 535.0 540.0 545.0 550.0 555.0 560.0 565.0 570. 0 573.6 575.0 580.0 585.0 590.0 595.0 600.0 605.0 610.0 615.0 620.0 623.6 625.0 630.0 635.0 640.0 645.0 647.1 650.0 700.0 750.0 800.0 8 50.0 900.0 950.0 1000.0

548 This TSL has 94 temperatures and it must be processed in 5 rounds

Dub Bank - (m) + Notoppe + (tr, U+L+Q) - Joos + #33695 + Artilacts Image: (tr, U+L+Q) - Joos + #33695 + Artilacts Image: (tr, U+L+Q) - Joos + #33695 + Artilacts Image: (tr, U+L+Q) - Joos + #33695 + Artilacts Image: (tr, U+L+Q) - Joos + #33695 + Artilacts Image: (tr, U+L+Q) - Joos + #33695 + Artilacts Artifacts / njoy,tsl Image: (tr, U+L+Q) - Joos + #33695 + Artilacts Image: (tr, U+L+Q) - Joos + #33695 + Artilacts Image: (tr, U+L+Q) - Joos + #33695 + Artilacts Image: (tr, U+L+Q) - Joos + #33695 + Artilacts Image: (tr, U+L+Q) - Joos + #33695 + Artilacts Artifacts / njoy,tsl Image: (tr, U+L+Q) - Joos + #33695 + Artilacts Image: (tr, U+L+Q) - Joos + #33695 + Artilacts Image: (tr, U+L+Q) - Joos + #33695 + Artilacts Image: (tr, U+L+Q) - Joos + #33695 + Artilacts Image: (tr, U+L+Q) - Joos + #33695 + Artilacts Image: (tr, U+L+Q) - Joos + #33695 + Artilacts Image: (tr, U+L+Q) - Joos + #33695 + Artilacts Image: (tr, U+L+Q) - Joos + #33695 + Artilacts Image: (tr, U+L+Q) - Joos + #34695 + Artilacts Image: (tr, U+L+Q) - Joos + #34695 + Artilacts Image: (tr, U+L+Q) - Joos + #34695 + Artilacts Image: (tr, U+L+Q) - Joos + #34695 + Artilacts Image: (tr, U+L+Q) - Joos + #34695 + Artilacts Image: (tr, U+L+Q) - Joos + #34695 + Artilacts Image: (tr, U+L+Q) - Joos + #34695 + Artilacts Image: (tr, U+L+Q) - Joos + #34695 + Artilacts Image: (tr, U+L+Q) - Joos + #34695 + Artilacts Image: (tr, U+L+		datapath=/So	rted/library-c							
	Data Bank → ···· → Isotopes → tsL H H2O → Jobs → #33695 → Artifacts	hh2o	0.999167							
Opassed Job #38695 in pipeline #9075 for da1539ba from JEFF by ProLICHO Daniela, NEA/DE Impace 2, 27, 28 Impace 2,		directory	0.000167	LL2- 00 272 45				407534		0 0 0545 00
Cynassed: Dod #33000 in [plenin #5073 for dd13300 a findin 247 cp] are rotation (247 c	Present lab #22605 in pingling #0075 for da1530ha from JEEE by # EQUICINO Dapiela NEA/DP	hh20.00t	0.999167	hb20.00_2/3.15	0	1	1	12/531	0	0 2.354E-08
Artifacts / njoy_tst 0.999167 M20.09,293.0 0 1 1 22731 0 0 2.456-68 Name M20.04,230.0 0 1 1 22731 0 0 2.456-68 Mac. 0.999167 M20.04,230.0 0 1 1 22731 0 0 2.456-68 Mac. 0.999167 M20.04,230.0 0 1 1 22731 0 0 2.456-68 Mac. 0.999167 M20.04,230.0 0 1 1 22731 0 0 2.458-68 Mac. 0.999167 M20.04,938.0 0 1 1 22731 0 0 2.458-68 M20.0417 M	Depassed Job #33095 in pipeline #9075 ioi da15300a nom JEFF by The Foliono Danieta, NEA/DB 2	hh20.01t	0.999107	hb20.01_2/5.0	0	1	1	127531	9	0 2.3/02-08
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Artifacts / njoy_tst. Name Name <t< th=""><th></th><th>hh20.04t</th><th>0 999167</th><th>bh20_04_285_0</th><th>A</th><th>1</th><th>1</th><th>127531</th><th>â</th><th>0 2 456E-08</th></t<>		hh20.04t	0 999167	bh20_04_285_0	A	1	1	127531	â	0 2 456E-08
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Name hb20.071 hb20.072 hb2	Artifacts / njoy_tsl	hh20.06t	0.999167	hh20.06 293.6	0	1	1	127531	0	0 2.530E-08
Name hb20.68t 0.999167 hb20.69 0.0 1 1 12733 0 0 2.585-00 D </th <th></th> <th>hh20.07t</th> <th>0.999167</th> <th>hh20.07 295.0</th> <th>0</th> <th>1</th> <th>1</th> <th>127531</th> <th>0</th> <th>0 2.542E-08</th>		hh20.07t	0.999167	hh20.07 295.0	0	1	1	127531	0	0 2.542E-08
Name hbo.09167 hbo.092 9385.8 0 1 1 12753 0 0 2.028-20 D 1 12753 0 0 2.028-20 L 1 12753 0 0 2.028-20 L 1 12753 0 0 2.028-20 L		hh2o.08t	0.999167	hh20.08_300.0	0		1	127531	0	0 2.585E-08
Name hb20-18t 0.999167 hb20-18 0.99167 hb20-18	Hanna	hh2o.09t	0.999167	hh20.09_305.0	0		1	127531	0	0 2.628E-08
□ h20.111 0.990167 h120.112 0.9017 0.72781.00 0.72781-00 □ 0.0017 h20.111 0.990167 h120.112 0.01 1 127511 0.0 0.7284-00 □ 0.0017 h20.111 0.990167 h120.112 0.0 0.7284-00 0.7284-00 □ 0.0017 h20.111 0.990167 h120.112 0.0 0.7284-00 □ 0.00167 h120.112 0.990167 h120.112 0.0 0.7284-00 □ 0.990167 h120.112 0.0 1.1 127511 0.0 0.7284-00 □ 0.990167 h120.12 0.990167 h120.12 0.990167 h120.12 0.990167 h120.212 0.990167 h120.22 0.990167 h120.22 0.990167 1.1 127511 0.0 0.3188-00 h120.212 0.990167 h120.22 0.990167 h120.22 0.990167 1.1 127511 0.0 0.3188-00 h120.222 0.990167 h120.23740.00 0.1 1.1 127511 0.0 <	Name	hh2o.10t	0.999167	hh20.10_310.0				127531		0 2.671E-08
b hb20.12t 0.990167 hb20.12t 0.900167 hb20.12t 0.990167 hb20.22t 0.9		hh2o.11t	0.999167	hh20.11_315.0	0			127531	0	0 2.714E-08
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http://www.ct 0.99167 http://withoutagasta.et/actionalizatalizationeneneneity and and and and and and and and and		hh2o.17t	0.999167	hh20.17_340.0	0	1	1	127531	0	0 2.930E-08
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□inout mt2.21t 0.999167 mt2.223t 0.0 0 1.145t-80 □ibrary-c ht20.22t 0.999167 ht20.23t 0.999167 ht20.23t 0.99167 ht20.25t 0.999167 ht20.24t 0.999167 ht20.24t 0.999167 ht20.24t 0.99167 ht20.24t 0.999167 ht20.24t 0.99167 ht20.24t 0.99167 ht20.24t 0.99167 ht20.24t 0.99167 ht20.24t 0.99167 ht20.24t 0.99167 ht20.24t 0.99167 ht20.24t 0.99167 ht20.34t 0.99167		hh20.20t	0.999167	hh20.20_355.0	0	1	1	127531	0	0 3.059E-08
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□ library-c		hh20.24t	0.999107	hh20.24_373.0	0	1	1	127531	9	0 3.2192-00
▶ Dendf hb20.27t 0.999167 hb20.72t 0.999167 hb20.27t 0.999167 hb20.28t 0.999167 hb20.29t 0.999167 hb20.29t 0.999167 hb20.29t 0.999167 hb20.29t 0.999167 hb20.29t 0.999167 hb20.32t 0.999167 hb20	🔁 library-c	hh20.25t	0.999107	hb20 26 380 0	a	1	1	127531	a	0 3 2755-08
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List of temperatures (K) in the TSL file:

547 273.15 275.0 280.0 283.6 285.0 290.0 293.6 295.0 300.0 305.0 310.0 315.0 320.0 323.6 325.0 330.0 335.0 340.0 345.0 350.0 355.0 360.0 36 5.0 370.0 373.6 375.0 380.0 385.0 390.0 395.0 400.0 405.0 410.0 415.0 420.0 423.6 425.0 430.0 435.0 440.0 445.0 450.0 455.0 460.0 465.0 470.0 473.6 475.0 480.0 485.0 490.0 495.0 500.0 505.0 510.0 515.0 520.0 523.6 525.0 530.0 535.0 540.0 545.0 550.0 555.0 560.0 565.0 570. 0 573.6 575.0 580.0 585.0 590.0 595.0 600.0 605.0 610.0 615.0 620.0 623.6 625.0 630.0 635.0 640.0 645.0 647.1 650.0 700.0 750.0 800.0 8 50.0 900.0 950.0 1000.0

548 This TSL has 94 temperatures and it must be processed in 5 rounds

Data Bank > > Isotopes > tsLH_H2O > Jobs > #33695 > Artifacts

$ \frac{1}{100} + 1$			<pre>datapath=/Sorted/library-c</pre>				
Norm Norm Norm No			atomic weight ratios				
$\frac{1}{10000} = 0 + 0 + 0 + 0 + 0 + 0 + 0 + 0 + 0 + 0$			nn20 0.999167				
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$ \frac{1}{1000} = 10000 + 100000 + 100000 + 100000 + 100000 + 100000 + 100000 + 100000 + 100000 + 100000 + 100000 + 1000$	Lana bank isotopes e ist (Emport actor e accordine Arblacts		hh20.03t 0.999167	hh20.03 283.6 0 1 1	127531 0 0 2,444E-08	Ê.	65-
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Nor	Artifacts / niov.tsl / library=c		hh20.07t 0.999167	hh2o.07_295.0 0 1 1	127531 0 0 2.542E-08		
num			hh2o.08t 0.999167	hh2o.08_300.0 0 1 1	127531 0 0 2.585E-08	s	a
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$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	b		hh2o.11t 0.999167	hh20.11_315.0 0 1 1	127531 0 0 2.714E-08	15" 15" 15" 15" 15" 15" 15" Francy (MaV)	15" 15" 15" 15" 15" 15" Francy (MeV)
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$ \frac{1}{1} \ln h_{21} \ln h_{22} \ln h_{23} \ln$			hh20.16t 0.999167	bh20,16,335,0,0,1,1	127531 0 0 2.887F-08	* PROCESSED TSL_H_H2O AT 273.15*	" PROCESSED TSL_H_H2O AT 275.0"
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$\frac{11}{112}(5-5) = 0.000167 \qquad \frac{11}{112}(5-5) = 0.01 = 1.027531 = 0.04, 2757-00$			hh20.48t 0.999167	hh20.48_480.0 0 1 1	127531 0 0 4.1361-08		
			hh20.58t 8.999167	hh20 50 490 0 0 1 1	127531 0 0 4.1792-08		

The link provided below contains the processed files for H in H2O: <u>https://www.oecd-nea.org/dbdata/nds/JEFF4T2/TSL/Processed/Sorted/</u>

Thank you for your attention

Please contact me (<u>daniela.foligno@oecd-nea.org</u>) if you have any questions or comments.