

International Atomic Energy Agency

IAEA-Nuclear Data Section Status Report

NSDD Scientific Secretary: Paraskevi (Vivian) Dimitriou: April 2013 - present

2013-2015

NSDD Network Coordination

- NSDD Website http://www-nds.iaea.org/nsdd/
- · Contracts for Mass-chain and Horizontal Evaluations
- European NSDD Effort (Balabanski)
- NSDD Meetings

Training

- Joint ICTP-IAEA Workshop on NSDD: Theory and Evaluation, 24-28 March 2014 (Trieste)
- NEW: Specialized Workshop on NSDD Evaluation, 27-29 April 2015

CRPS

- · Reference Database for Beta-Delayed Neutron Emission
- Charged-Particle Monitor Reactions and Medical Isotope Production (Roberto Capote Noy)
- International Reactor Dosimetry File (IRDFF) (Stanislav Simakov)

Codes

- Improvement of Analysis Codes for NSDD evaluations (Project began in 2014)
- · MyENSDF We Tool (Zerkin)
- · Workshop on Improved Decay Data, 2013, Antwerp
- 2nd North-America Workshop on Beta-Delayed Neutron Emission, 2013 (Skype)
- 4th Oslo Workshop on Level densities and Strength Functions, 2013, Oslo
- · USNDP/CSEWG 2013, BNL
- · NS 2014, Vancouver BC
- · CGS15, Dresden, 2014
- 5th DDEP Workshop, Bucharest 2014
- · USNDP, BNL, 2014

Dissemination

Meetings

- LiveChart (Verpelli)
- Isotope Browser Android & iOS Application (Verpelli)

International Atomic Energy Agency

NSDD website: www-nds.iaea.org/nsdd/





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earch .

Go

Databases » ENSDF | NuDat 2.5 | LiveChart | NSR | Nuclear Wallet Cards

Related » ENSDF Manuals | Codes | Nuclear Data Sheets | EXFOR

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INTERNATIONAL NETWORK OF NUCLEAR STRUCTURE AND DECAY DATA EVALUATORS (NSDD)

Scientific Secretary: Paraskevi Demetriou

21st Technical Meeting of the Nuclear Structure and Decay Data Network, 20-24 April 2015, IAEA, Vienna

The 21st NSDD meeting will be held from 20 to 24 April 2015, at the IAEA Headquarters in Vienna.

- · Meeting Room M4
- Preliminary Agenda
- · List of Participants
- Presentations

Specialized Workshop on NSDD Evaluations, 27-29 April 2015, IAEA, Vienna

The workshop will take place from 27 to 29 April 2015 at the IAEA Headquarters in Vienna. Active NSDD evaluators will meet to

- · discuss frequently encountered problems in their evaluation work,
- be informed on evaluation policies and their implementation,
- be updated about analysis codes,
- · refresh their evaluation skills.

The workshop coordinators, Filip Kondev (ANL/USA) and Elizabeth McCutchan (BNL/USA), have put together a scientific programme that covers a number of issues of importance to ENSDF evaluations, including policies, procedures, formats, and codes, with special advise from Murray Martin (ORNL/USA). The 'lectures' will be based on a combination of presentations and round-table discussions evolving around specific examples and highlighting 'best practices'.

During the workshop, participants will also have the opportunity to discuss topics of their preference stemming from their own evaluation work. Several 30-minute long sessions will be devoted to discussing participant's topics on Wednesday, 29th April.

- Meeting Room C0343 (Building C- Rotunda)
- Workshop Agenda
- List of Participants

New RadD Code

20th Meeting 2013

Online Webtools

(V. Zerkin)

ENSDF Codes

Status of NSDD network

List of NSDD network institutes and contacts

19th Meeting 2011 18th Meeting 2009

17th Meeting 2007 16th Meeting 2005 15th Meeting 2003 14th Meeting 2000

IAEA-ICTP 2014
IAEA-ICTP 2012
IAEA-ICTP 2010
IAEA-ICTP 2008
IAEA-ICTP 2006
IAEA-ICTP 2005
Workshop 2003-part 2
Workshop 2003-part 1

↑ IAEA Documents

Table of Nuclear
Magnetic Dipole and
Electric Quadrupole
Moments, 2014
Table of Nuclear Electric
Quadrupole Moments,
2013
Library of
Recommended Actinide
Decay Data, 2011
Auger Electron Emission
Data for Medical
Applications
Charged-particle
Monitor Reactions and
Medical Isotope



Go

Databases » ENSDF | NuDat 2.5 | LiveChart | NSR | Nuclear Wallet Cards

Related » ENSDF Manuals | Codes | Nuclear Data Sheets | EXFOR

Mike Herman Jagdish K. Tuli Jean Blachot Ameenah R. Farhan Ashok K. Jain Huo Junde Hideki Iimura John H. Kelley Tibor T. Kibedi

Filip G. Kondev Shamsuzzoha Basunia Ivan A. Mitropolsky Balraj Singh Janos Timar Michael S. Smith Ge Zhigang Robin A. Forrest

Daniel Abriola Richard Firestone George Audi Kalifeh Abusaleem Coral M. Baglin Stephan Lalkovski Swapan Kumar Basu Alexandru Negret Zsoltan Elekes



INTERNATIONAL NETWORK OF NUCLEAR STRUCTURE AND DECAY **DATA EVALUATORS (NSDD)**

Scientific Secretary: P. Demetriou

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20th Meeting of the NSDD Network



The 20th IAEA meeting of the NSDD network was hosted by the Kuwait Foundation for the Advancement of Sciences (KFAS) and Physics Department-Kuwait University, in Kuwait, from 27-31 January 2013.

We gratefully acknowledge KFAS generous contribution towards the expenses of the meeting and the warm hospitality of the hosts during the meeting.

Adopted Agenda

(NDS)-0635

Summary Report - INDC

Participants

Presentations

Photos

Actions



Status of NSDD network List of NSDD network institutes and contacts

★ Evaluation Tools

Online Webtools (V. Zerkin) ENSDF Manuals **ENSDF** Codes

NSDD Meetings

20th Meeting 2013 19th Meeting 2011 18th Meeting 2009 17th Meeting 2007 16th Meeting 2005 15th Meeting 2003 14th Meeting 2000

★ Workshops on NSDD: Theory and Evaluation

IAEA-ICTP 2014 IAEA-ICTP 2012 IAEA-ICTP 2010 IAEA-ICTP 2008 IAEA-ICTP 2006 IAEA-ICTP 2005

INDC(NDS)-421 Revision 1 Distr. EL

Nuclear Structure and Decay Data (NSDD) Evaluators' Network

Prepared by

V.G. Pronyaev, A.L. Nichols and J. Tuli1

IAEA Nuclear Data Section Vienna, Austria ¹National Nuclear Data Center

¹National Nuclear Data Center Brookhaven National Laboratory Upton, USA

Abstract

The structure, principal activities and products of the Nuclear Structure and Decay Data (NSDD) Evaluators' Network are described. This revision supersedes the special issue of the Nuclear Data Newsletter No. 20 published in November 1994, and defines the status of the NSDD Network as of November 2003.

March 2004



Nuclear Data Section International Atomic Energy Agency

Coordination of the NSDD Network

Data Dissemination



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Contact: J. Timar

MYENSDF WebTool (V. Zerkin)

Web tools for ENSDF evaluators

by V.Zerkin, IAEA-NDS, 2011-2015 (ver.2015-01-30)

Upload your ENSDF dataset and run remotely ENSDF codes: FMTCHK, chk_ENSDF, PREPRO, GTOL, LOGFT, PANDORA, RADLST, BrIcc, NDSPUB



Login: nsdd 2015/04/15:14:16:38 161.5.6.223::Austria Access level=2

#	Area	ENSDF file	Files	Created		
1.1	tmp60 Zerkin	a184.ens	15	2015/04/14 09:10:26	Viktor 161.5.6.220::Austria	continue

Web Design and Programming: Viktor Zerkin, NDS, International Atomic Energy Agency (V.Zerkin@iaea.org)
Last updated: 04/15/2015 16:15:10

ENSDF Analysis and Utility Programs

The Brookhaven National Nuclear Data Center maintains and distributes various programs in support of the International Atomic Energy Agency sponsored Nuclear Structure and Decay Data Network. These programs generally use as input files in the Evaluated Nuclear Structure Data File (ENSDF) format.[1]

For further information about the status and revision history please visit the NNDC dedicated web pages.

List of modifications:

• 2015-04-02 GABS new version

In some cases the uncertainty of the normalised gamma intensity was incorrectly reported in the output ENSDF file: '**' was given instead of a numerical value. Warning is given if no gamma transition is marked to be used for normalisation by inserting 'X' or 'Y' in column 79.

Old comment gamma records with the calculated normalised intensities are removed/replaced with new ones.

• 2015-03-10 RadD program added - Deduces radius parameters

Please address any issue regarding this page to nds.contact-point@iaea.org Last updating: 2 Apr 2015.

NS	DF Analysis Programs					
he #	n present, documentation is included in the compressed files Program	Last Changed	ANSI	Linux	Windows	MacOS
1	ALPHAD Calculates alpha HF's and theoretical half-lives.	2014-10-15 Added MacOS files	Source code Compressed file	Source code Executable Compressed file	Source code Executable Compressed file	Compressed file with other codes*
2	BrIcc Calculates the conversion electron, electron-positron pair conversion coeffcients and the E0 electronic factors	2015-01-20 New Windows executables correcting runtime problems		Compressed file	Self-extracting archive	Compressed file
3	BrIccMixing Calculates the multipole mixing ratio - Requires BrIcc	2015-01-20 New Windows executables correcting runtime problems		Compressed file	Self-extracting archive	Compressed file
8	LOGFT Calculates log ft values for beta and electron-capture decay, average beta energies, and capture fractions	2014-10-15 Added MacOS files	Source code Compressed file	Source code Executable Compressed file	Source code Executable Compressed file	Compressed file with other codes*
9	PANDORA APerforms a least-squares fit to the gamma-energies to obtain level energies and calculates the net feedings to levels.	2014-10-15 Added MacOS files	Source code Compressed file	Source code Executable Compressed file	Source code Executable Compressed file	Compressed file with other codes*
10	*NEW* RadD Deduces the radius parameter for odd-odd and odd-A nuclei using the even-even radii as input parameters	2015-03-10 Added to the list	Source code	Compressed file With source and exec for all platforms. For Linux and MAC OS exec compiled with gfortran.	Compressed file With source and exec for all platforms.	Compressed file With source and exec for al platforms. For Linux and MAC OS exec compiled with gfortran.
11	RadList Calculates atomic & nuclear radiations. Checks energy balance	2014-10-15 Added MacOS files	Source code Compressed file	Source code Executable	Source code Executable Compressed file	Compressed file with other codes*
12	RULER Calculates reduced transition probabilities	2014-10-15 Added MacOS files	Source code Compressed file	Source code Executable Compressed file	Source code Executable	Compressed file with other codes*

Financial Support

Mass chains: 2013-2015

- · Abusaleem (JOR): completed 2 years 1 left
- · Lalkovski (BUL): completed in 2014
- Erturk (TUR): ended in 2014
- Dhindsa (IND): completed 2 years 1 left
- Timar (HUN): completed in 2014
- Negret (ROM): completed in 2013

Horizontal Evaluations: 2013-2015

- Wang (AME 2012): completed in 2013
- Stone: 1 year contract 2012-2013: Nuclear Moments Tables INDC(NDS)-0648, INDC(NDS)-0650
- Mertzimekis: 1 year contract 2014-2015: Nuclear Moments Database

Future of individual contracts

Training (ICTP Workshop)



Mentoring (work with experienced evaluators on a mass chain): we are trying to find a framework for funding mentoring scheme



Specialized training (IAEA Workshop)



Individual contract (if candidate has demonstrated consistency and commitment and after recommendation from mentor)

Training

Joint ICTP-IAEA Workshop on NSDD: Theory and Evaluation, 24-28 March 2014, Trieste, Italy

- · 1-week workshop: acting evaluators encouraged to attend
- · Directors: Tuli, Dimitriou
- 5 lecturers : Tuli, Singh, McCutchan, Kondev, Van Isacker
- 21 participants from 10 countries
- Practical work: Evaluation of mass chain A=227 (work in progress)

Specialized Workshop on NSDD Evaluation, 27-29 April 2015, Vienna

- · IAEA PO: Dimitriou
- Program Coordinators: E. McCutchan, F. Kondev
- · Lecturers: Martin, Singh, Tuli, Kibedi, McCutchan, Kondev
- For active evaluators
- Informal structure, based on discussions
- Participant's sessions: feedback from active evaluators
- Output: technical discussions including examples and recommendations will be published in an INDC(NDS) report

NSDD Evaluations

Mass chain A=211

- Group evaluation that commenced at ICTP-IAEA NSDD Workshop 2012)
- · Contributors: D. Abriola, P. Dimitriou
- Published in Nuclear Data Sheets 114, 661 (2013)

Mass chain A=215

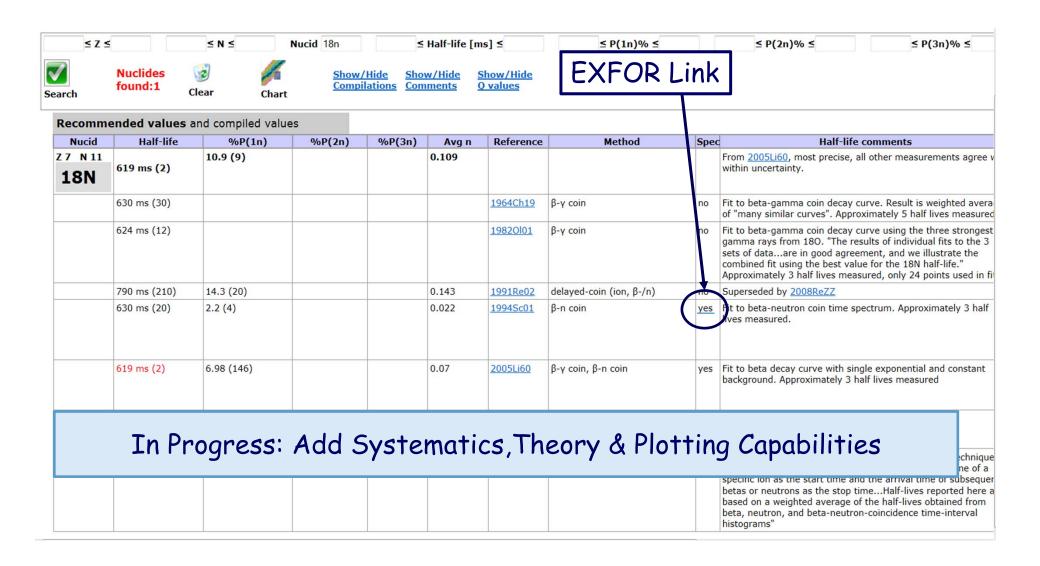
- Group evaluation that commenced at ENSDD Kolkata Workshop 2012
- · Contributors: D. Abriola, P. Dimitriou
- · Published in Nuclear Data Sheets 114, 2023 (2013)

Coordinated Research Projects

CRP: Reference Database for Beta-Delayed Neutron Emission 2013-2017 (P. Dimitriou, M. Verpelli)

- 1st RCM from 26-30 August 2013: Summary Report INDC(NDS)-0643
- 2nd RCM from 23-27 March 2015
- Objective: generate a Reference Database for beta-delayed neutron emission data, both microscopic (individual precursors) and macroscopic (integral data)
 - Measurements (Tain, Algora, Fallot, Rykaczewski, Grzywacz, Garrett, Dillmann, Lorusso)
 - Compilation and evaluation of experimental data (Singh, Birch, Dillmann, Sonzogni, McCutchan, Abriola, Huang, Banerjee-Mukherjee) with reviewing support from Algora, Lorusso
 - Benchmarking of microscopic data against integral measurements re-evaluate group decay parameters (Piksaikin, Mills, Sonzogni, Cano-Ott, Chiba)
 - Theoretical support (Borzov, Marketin, Minato)

Database for Z=2-28



CRP: Charged-particle Monitor reactions and medical isotope production 2012-2016 (R. Capote)

- Objective: Update beam monitor data, include data for emerging diagnostic and therapeutic radionuclides, re-evaluation of decay data, measurement of new decay and cross-section data
- 1st RCM: 3-7 December 2012; Summary Report INDC-NDS-0630
- · 2nd RCM: 8-12 December 2014

Decay Data

- 61Cu, 62,63Zn (evaluate decay schemes)
- 67Cu (measurement+evaluation of decay scheme+Auger data)
- 99Mo/99mTc, 111In (Auger data)
- ⁵²Fe, ^{52m,g}Mn, ⁶⁴Cu, ⁷²As, ⁷³Se, ⁷⁶Br, ⁸⁹Zr, ^{94m}Tc, ¹²⁰I (evaluation of decay scheme)
- 86Y, 66Ga (measurement+evaluation of decay scheme)
- 44Ti (evaluation of half-life)
- 230U, 226Th, 222Ra, 218Rn, 214,210Po, 210Pb, 210Bi, (decay chain+update)
- 178Ta, 103Pd, 125I, 131Cs (evaluation of decay scheme + Auger data)



CRP: International Reactor Dosimetry and Fusion File (IRDFF) 2013-2017 (S. Simakov)

- · Objective: Update IRDFF and validate new data files through benchmarking
- 1st RCM: 1-5 July 2013 Summary Report INDC-NDS-0639
- 2nd RCM in 2015

IRDFF Decay Data Sub-library

- · To renormalize cross section data to reference decay data
- · Use same decay data consistently in IRDFF evaluations and applications
- https://www-nds.iaea.org/IRDFFtest/irdffnuclideslist.htm

https://www-nds.iaea.org/IRDFFtest/irdffnuclideslist.htm

List of Isotopes and Isomers produced by reactions included in IRDFF: version 1.00 (Oct 2012) - 82; version 1.05 (Mar 2015) - additional 8 (NB: Half-lifes and Intensities are given only for orientation, exact values with uncertainties see in linked files)

									IRDFF new evaluations (DDEP)
#	Isotope	Half-Life	Decay Mode (Isomer level)	Radiation used for detection	Producing reaction ¹	Source on Oct 2012	ENDF Mat	Latest ENSDF ² (Oct 2014)	which replace ENSDF Comments
				Whole Decay Library	in ENDF format:	irdf2012.endf		IRDFF2014.ENDF	
1	1-H-3	12.32 y	β-	β- 18.594 keV 100%	6Li(n,t)4He	EVAL-JUL00	131	EVAL-JUL00	EVAL DEC 14 and pdf
2	9-F-18	109.77 m	β+	γ 511. keV 96.73%	19F(n,2n)18F	EVAL-NOV96	922	EVAL-NOV96	EVAL JUN 14 and pdf
3	11-Na-22	2.6027 y	β+,ε	γ 511. keV 90.326% γ 1274.5 keV 99.941%	23Na(n,2n)22Na	EVAL-DEC05	1122	EVAL-DEC05	EVAL DEC 14 and pdf
4	11-Na-24	14.997 h	β-	γ 1368.6 keV 99.994%	23Na(n,y)24Na 24Mg(n,p)24Na 27Al(n,a)24Na	EVAL-OCT07	1128	EVAL-OCT07	EVAL MAR 14 and pdf
5	12-Mg-27	9.458 m	β-	γ 843.76 keV 70.94% γ 1014.44 keV 29.06%	27Al(n,p)27Mg	EVAL-AUG11	1234	EVAL-AUG11	
6	13-Al-28	2.245 m	β-	γ 1778.9 keV 100%	28Si(n,p)28Al 29Si(n,d)28Al	NOT included	1328	EVAL-MAY12	EVAL JAN 15 and pdf
7	14-Si-31	157.36 m	β-	β- 1491 keV 99.98% γ 1266.2 keV 5.54%	31P(n,p)31Si	EVAL-MAR01	1434	EVAL-MAR13	
8	15-P-32	14.268 d	β-	β- 1710.66 keV	32S(n,p)32P	EVAL-SEP11	1528	EVAL-SEP11	
9	21-Sc-46	83.79 d	β-	γ 889.3 keV γ 1120.5 keV	45Sc(n,γ)46Sc 46Ti(n,p)46Sc 47Ti(n,x)46Sc	EVAL-FEB01	2128	EVAL-FEB01	EVAL JUN 14 and pdf
10	21-Sc-46M	142.528 m	IT (143keV)	γ 142.53 keV		EVAL-NOV00	2129	EVAL-FEB01	
11	21-Sc-47	3.3492 d	β-	γ 159.38 keV	47Ti(n,p)47Sc 48Ti(n,x)47Sc	EVAL-MAY07	2131	EVAL-MAY07	EVAL NOV 13 and pdf
12	21-Sc-48	43.67 h	β-	γ1312.120 keV	48Ti(n,p)48Sc 49Ti(n,x)48Sc 51V(n,a)48Sc	EVAL-JUL06	2134	EVAL-JUL06	EVAL DEC 14 and pdf
13	22-Ti-45	184.8 m	β+,ε		46Ti(n,2n)45Ti	EVAL-FEB08	2222	EVAL-FEB08	
14	24-Cr-51	27.701 d	ε	γ 320.1 keV	52Cr(n,2n)51Cr 54Fe(n,a)51Cr	EVAL-AUG06	2428	EVAL-AUG06	EVAL DEC 14 and pdf
15	25-Mn-54	312.05 d	β+	γ 834.848 keV	55Mn(n,2n)54Mn 54Fe(n,p)54Mn	EVAL-JUN06	2522	EVAL-JUN06	EVAL MAR 14 and pdf
16	25-Mn-56	2.5789 h	β-	γ 846.764 keV 99%	55Mn(n,y)56Mn 56Fe(n,p)56Mn 59Co(n,a)56Mn	EVAL-MAY11	2528	EVAL-MAY11	
17	26-Fe-53	8.51 m	β+,ε	γ 377.9 keV 42%	54Fe(n,2n)53Fe	EVAL-OCT09	2622	EVAL-OCT09	

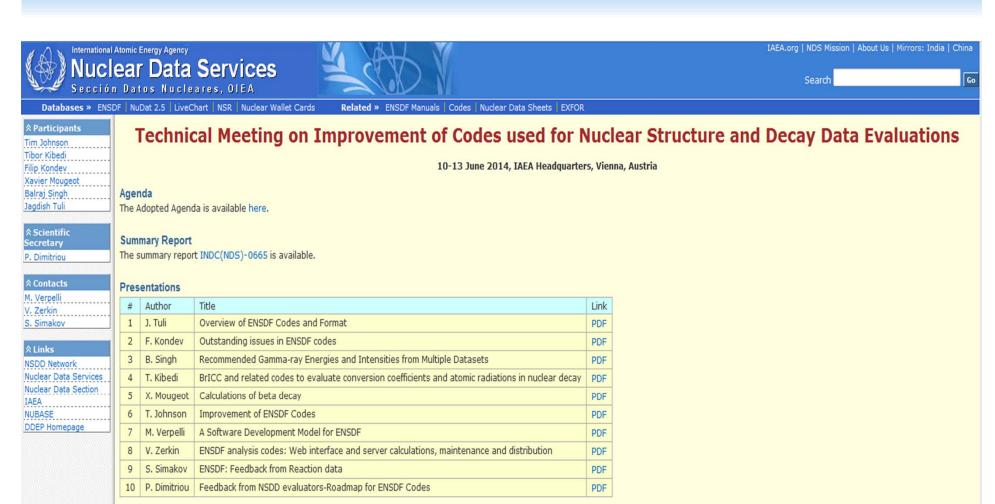
Data Development Project: Improvement of Analysis Codes for NSDD Evaluations (Wednesday session)

- 1st meeting: 10-13 June 2014
- Summary Report: INDC(NDS)-0665

Objectives

- Assess current status of codes
- Update physics models/error treatment
- · Re-write in modern programming language
- · Comprehensive manuals incl. test cases
- Develop EvaluationToolkit (based on evp editor)

https://www-nds.iaea.org/nds-technical-meetings/TM-Codes-2014/



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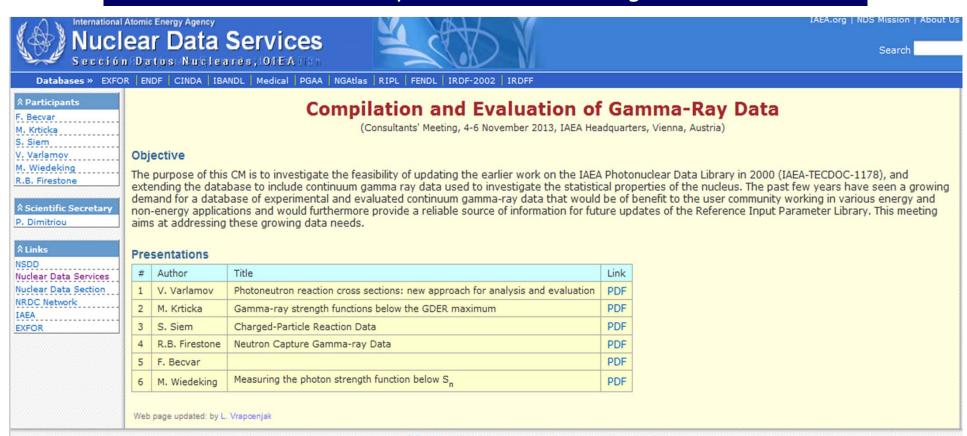
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Web page prepared by P. Dimitriou

Action from 20th NSDD: R. Firestone, S. Siem and NDS-IAEA to hold a CM to discuss the generation of a database for reaction y-ray data

CRP endorsed by INDC 2014 - To begin in 2016



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Last Updated: 11/13/2013 07:59:12



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☆ Links

Nuclear Data Services Nuclear Data Section IAEA

Consultant's Meeting on Total Absorption Gamma-ray Spectroscopy (TAGS)

15-17 December 2014, IAEA Headquarters, Vienna, Austria

Objective

The objective of the meeting was to review the current status of TAGS measurements and re-assess the data needs for decay heat calculations, beta-delayed neutrons and anti-neutrino spectra.

Agenda

The Adopted Agenda is available here.

Summary Report

The summary report INDC(NDS)-0676 is now available.

Presentations

#	Author	Title	Link
1	A. Algora	TAGS measurements by Valencia group (I)	PDF
2	M. Karny	TAGS measurements by ORNL-Warsaw group	PDF
3	M. Fallot	TAGS measurements for anti-neutrino spectra-recent anti-neutrino measurements	PDF
4	JL. Tain	TAGS measurements by Valencia group (II)	PPT
5	T. Yoshida	Part I: Analysis of reactor beta- and anti-neutrino energy spectra on the basis of the gross theory	PPT
6	T. Yoshida	Part II: Contributions of Jyvaskyla and Idaho TAGS to FP Decay-Heat Calculations: Their Complementarity and Problems Left	PPT
7	A. Sonzogni	TAGS data in ENDF/B VII.1	PPT
8	JCh. Sublet	Verification and Validation: EASY=II & TENDL-2013, ENDF/B-VII.1, JENDL-4.0u or JEFF-3.2	PDF
9	A. Algora	Testing Nuclear Models with TAGS Data	PDF
10	P. Dimitriou	Connection with IAEA Database on beta-delayed neutrons	PDF

Consultants' Meeting on Auger Electron Emission from Nuclear Decay: Data Needs for Medical Applications

9-10 May 2013, IAEA Headquarters, Vienna, Austria

Summary Report

INDC(NDS)-0638

Presentations

#	Author	Title	Link
1	K. Bartschat	Atomic Structure Calculations (and More) Using the B-Spline R-Matrix Approach	PDF
2	H.K. Chung	Studies Of Inner Shell Excitation And Ionization And The Resulting Cascades By X-ray Free Electron Lasers	PDF
3	C. Dong	Calculations of Auger Electron Spectrum	PDF
4	T. Kibedi	Data needs for Auger electron cascade simulations	PDF
5	H. Nikjoo	Auger electron transport calculations in biological matter	PDF
6	A. Palffy	Theoretical uncertainties for Auger electron cascades	PDF

Web page prepared by L. Vrapcenjak

FUTURE PLANS

DDP on Improvement of Analysis Codes: 2nd TM from 5-8 October 2015

- Monitor progress
- · Discuss new codes agree on validation procedure
- Revise assignments and actions

Training

- · ICTP-IAEA NSDD workshop in 2016
- Specialized Workshop for ENSDF evaluators: depending on success of first workshop will be proposed as a workshop series

Coordination

Revise Status Document INDC(NDS)-0421

Dissemination

- Live Chart & Isotope Browser (Verpelli)
- MyENSDF Web Tool (Zerkin)

New Project

· Magnetic Moments Evaluation

Thank you

