EXFOR COMPILATIONS UNDER THE AUSPICES OF THE NEWLY FORMED Nuclear Data Physics Centre of India (NDPCI)

A Brief Presentation by Prof. S. Ganesan Head, Nuclear Data Section, Reactor Physics Design Division & Professor, Homi Bhabha National Institute, Mumbai, DAE & Project-In-Charge, NDPCI 5th Floor, Central Complex, Bhabha Atomic Research Centre, Trombay, Mumbai-400085 INDIA

### International Network of Nuclear Reaction Data Centres (NRDC)

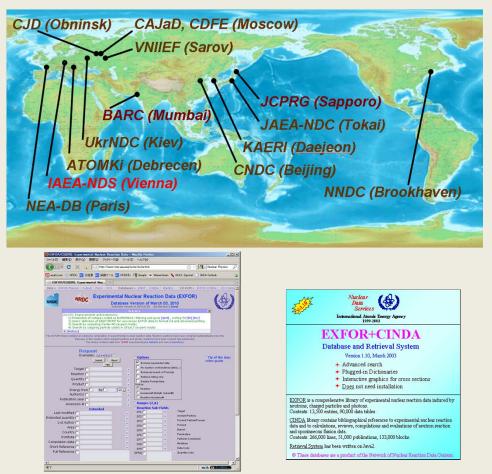
### **NNDC**

NEA-DB

- IAEA-NDS
- CJD, CAJaD, CDFE, CNPD
- **ATOMKI**
- **CNDC**
- JCPRG, JAEA
- KAERI



**BARC** 



NDPCI is responsible for all EXFOR compilations in India. BARC was invited and joined as a full member of NRDC in September 2008.

The 4th DAE-BRNS theme meeting on EXFOR compilation of nuclear data , 4–8 April 2011 at the Department of Physics, Panjab University, Chandigarh, India

was highly successful as were the Indian EXFOR Workshops in 2006, 2007, 2009. The professional help by the IAEA-NDS is essential.

See: <a href="http://physics.puchd.ac.in/events/exfor2011/">http://physics.puchd.ac.in/events/exfor2011/</a>

S. Ganesan (BARC), A. Saxena (BARC) and B. Behera (Panjab University) were main organizing committee members as Chairman, Technical convener and local convener respectively.

FACULTY INCLUDED: •NAOHIKO OTSUKA (IAEA-NDS)

> •SVETLANA DUNAEVA (Russsia, Ex-IAEA STAFF) •Svetlana also visited VECC, Kolkata (G. Mukherjee, VECC) and BARC (NDPCI)





The 4th DAE-BRNS theme meeting on EXFOR compilation of nuclear data, 4–8 April 2011 at the Department of Physics, Panjab University, Chandigarh, India

During the workshop itself more than 25 entries were finalized

Following up the EXFOR compilations to its peer-review, completion and acceptance after the workshop is vital to the success of the workshop.

# The number of participants was 75 ++. The list of participants is available in the meeting website:

http://physics.puchd.ac.in/events/exfor2011/participants.html

EXFOR Entries prepared by Indian Compilers.

See: http://www-nds.iaea.org/nrdc/india/

Extracts from this website as on 23 May 2011 are shown in the next few slides

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Entry	Compiler	e-mail	Reference	Status	Source	Draft	ZCHEX	JANIS	Booked	Updated	Quality	Remark	^
33029	B.J.Roy	bidyutr2003@googlemail.com	J,RCA,55,173,1991	Submitted	Table	x	x	x	2011-04- 04	2011-05- 03			
33032	M.Bhike	megha.bhike@gmail.com	J,PR,137,B511,1965	Submitted	Curve	x	x	x	2011-04- 04	2011-04- 07			
33033	P.M.Prajapati	paresh_21soft@yahoo.co.in	J,EPJ/A,47,51,2011	Compile!					2011-04- 26				E
33034	R.Mandal	ranjita169@gmail.com	J,KPS,,(1073),2011	Submitted	Table	x	x	x	2011-05- 16	2011-05- 19		paper# 1073	
33041	Y.S.Sheela	krishsanthi76@rediffmail.com	J,PRM,40,299,1993	Submitted	Curve	x	x	x	2011-04- 04	2011-04- 07			
D6096	M.Bhike	megha.bhike@gmail.com	J,RCA,97,663,2009	EXFOR	Table						-		
D6097			J,NP/A,315,157,1979			x	x	x					
D6098	R.Mandal	ranjita169@gmail.com	J,PR/C,83,024607,2011	Submitted	Curve	x	x	x	2011-05- 05	2011-05- 11			
D6099	P.M.Prajapati	paresh_21soft@yahoo.co.in	J,NP/A,648,45,1999	Submitted	Table	x	x	x	2011-04- 04	2011-04- 07			
<b>D</b> 6100	M.Hemalatha	hemalatha33@yahoo.com	J,NP/A,405,55,1983	Submitted	Curve	x	x	x	2011-05- 11	2011-05- 11			
D6101			P,BARC- 92/P/2,12,1992										
D6102	T.Mazumdar	tanay_bwn@yahoo.co.in	J,RCA,55,173,1991	Submitted	Table	x	x	x	2011-04- 04	2011-04- 07			
<b>D61</b> 03	B.Jyrwa	bjyrwa90@hotmail.com	J,EPJ/A,44,403,2010	Submitted	Curve	x	x	x	2011-04- 04	2011-04- 08			
<b>D61</b> 04	P.M.Prajapati	paresh_21soft@yahoo.co.in	J,PL/B,576,260,2003	Submitted	Table	x	x	x	2011-04- 04	2011-04- 07			
D6105	P.M.Prajapati	paresh_21soft@yahoo.co.in	J,ZP/A,342,95,1992	Submitted	Table	x	x	x	2011-04- 04	2011-04- 07			-

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D6105 P.M.Prajapati	paresh_21soft@yahoo.co.in	J,ZP/A,342,95,1992	Submitted	l Table	x	x	x	2011-04- 04	07			
D6106 M.Bhike	megha.bhike@gmail.com	J,NP/A,564,271,1993	D077	Curve	x			2010-12- 27	2011-01- 04	-		
D6107 M.Bhike	megha.bhike@gmail.com	J,NP/A,588,706,1995	D077	Curve	x			27	2011-01- 05	-		
D6108 M.Bhike	megha.bhike@gmail.com	J,PR/C,81,014311,2010	D076	Table	x			31	2011-01- 31	-		
D6109 M.Bhike	megha.bhike@gmail.com	J,PR/C,81,054601,2010	D077	Table	x			31	2011-03- 08	-		
D6110 M.Bhike	megha.bhike@gmail.com	J,PR/C,81,054608,2010	D076	Table	x			07	2011-01- 14	-		
D6111 M.Bhike	megha.bhike@gmail.com	J,PRL,106,022501,2011	D076	Table	x			14	2011-02- 04	-		
D6112 B.Jyrwa	bjyrwa90@hotmail.com	J,PRM,57,209,2001	Submitted	l Curve	x	X	x	2011-04- 13	2011-04- 15			
D6113		J,NP/A,601,251,1995			x	X	X	2011-04-				
D6114 B.Jyrwa	bjyrwa90@hotmail.com	J,ZP/A,278,281,1976	Expired!					18			Agreed with NEA-DB	(2011-04-18)
D6115 M.Bhike	megha.bhike@gmail.com	J,NP/A,834,186c,2010	D077	Table	x			2011-01- 27	2011-02- 23	Ð		
D6116 R.Mandal	ranjita169@gmail.com	J,PR/C,72,034604,2005	Submitted	Curve	x	x	x	2011-05- 05	2011-05- 12		Figs.5 & 6: per frag. (2	:011-05-11)
D6117												
D6118 M.Bhike	megha.bhike@gmail.com	J,PR/C,82,044608,2010	Submitted	I Table	x	x	x	04	2011-04- 07			
D6119 M.Bhike	megha.bhike@gmail.com	J,NP/A,597,151,1996	Submitted	I Table	x	x	x	2011-04- 04	2011-04- 07			
D6120 B.Jyrwa	bjyrwa90@hotmail.com	J.PRM,57,203,2001	Compile!					2011-05-			Agreed with NEA-DB	(2011-04-20)

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_	D6120	B.Jyrwa	bjyrwa90@hotmail.com	J,PRM,57,203,2001	Compile!					2011-05- 19			Agreed with	NEA-DB	(2011-04-2	0)		^
	D6121	R.Mandal	ranjita169@gmail.com	J,PR/C,73,064609,2006	Submitted	Curve	x	x	x	2011-05- 12	2011-05- 15		No mass wi	ndow applie	ed (2011-05	-12)		
	D6122			J,PR/C,70,051602,2004														
	D6123			J,EPJ/A,16,43,2003			x	x	x									
	<b>D612</b> 4	R.Mandal	ranjita169@gmail.com	J,EPJ/A,11,47,2001	Submitted	Table	x	x	x	2011-04- 04	2011-05- 11							
	D6125	M.Bhike	megha.bhike@gmail.com	J,PR/C,59,580,1999	Submitted	Table	x	x	x	2011-04- 04	2011-04- 07							
	D6126			J,PR/C,55,2951,1997			x	x	x									
	D6127			J,PRL,77,5027,1996														
	D6128	K.Kalita	ku_kalita@yahoo.com	J,PRM.44.177,1995	Submitted	Curve	x	x	x	2011-04- 04	2011-04- 07							
	D6129			J,PR/C,49,932,1994														Ξ
	D6130			J,PRM,41,339,1993														
	D6131	B.Pandey	bhawna.16p@gmail.com	J,PR/C,43,1466,1991	Submitted	Curve	x	x	x	2011-04- 04	2011-04- 07							
	D6132			J,NP/A,499,283,1989														
	D6133			J,PRM,33,365,1989														
	<b>D</b> 6134	V.Khular	vineet.kkhullar@gmail.com	J,NP/A,463,597,1987	Submitted	Curve	x	x	x	2011-04- 04	2011-04- 06							
	D6135	S.Shivashankar	shivu1982@hotmail.com	J,PRM,51,433,1998	Submitted	Curve	x	x	x	2011-04- 04	2011-04- 08							
	D6136	S.Mahadevan	s_mahadevan@cb.amrita.edu	J,PR/C,83,024605,2011	Compile!					2011-05- 13								
	D6137	P.K.Saran	research78626@gmail.com	J,NP/A,599,579,1996	Submitted	Curve	x	x	x	2011-04- 04	2011-04- 07		Authors sug 20)	gested to us	e digitized d	ata (2011-)	04-	
	D6138			J,PR/C,59,2580,1999														-

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dian EXFO	R Entry (since April 2011)												
D6138			J,PR/C,59,2580,1999										
D6139	R.Crasta	rita_crasta@yahoo.co.in	J,PR/C,81,064601,2010	Submitted	l Curve	x	x	x	2011-04- 04	2011-04- 08			
D6140	V.Mulik	vikas.mulik4@gmail.com	J,PR/C,82,064608,2010	Submitted	l Curve	x	x	x	2011-04- 04	2011-04- 30			
D6141	M.Kaur	mani.saini86@yahoo.co.in	J,PRL,66,1414,1991	Submitted	l Curve	x	x	x	2011-04- 04	2011-04- 06			
D6142	G.Mukherjee	gopal@vecc.gov.in	J,PR/C,45,2161,1992	Submitted	1 Table	x	x	x	2011-04- 04	2011-04- 19			
D6143			J,NP/A,539,351,1992			x	x	x					
D6144			J,PR/C,47,1418,1993										
D6145	R.Mandal	ranjita169@gmail.com	J,PR/C,48,1152,1993	Submitted	l Curve	x	x	x	2011-04- 04	2011-04- 06			
D6146	G.Mukherjee	gopal@vecc.gov.in	J,PR/C,48,1609,1993	Submitted	i Table	x	x	x	2011-04- 04	2011-04- 18			
D6147	K.R.Vijayaraghavan	vijayanphy@yahoo.com	J,NP/A,555,606,1993	Submitted	l Curve	x	x	x	2011-04- 04	2011-04- 07			
D6148	S.Mahadevan	s_mahadevan@cb.amrita.edu	J,PR/C,51,2942,1995	Submitted	l Curve	x	x	x	2011-05- 04	2011-05- 06			
D6149	B.Jyrwa	bjyrwa90@hotmail.com	J,PR/C,52,798,1995	Submitted	l Curve	x	x	x	2011-04- 04	2011-04- 26			
D6150	M.M.Mustafa	mm_musthafa@rediffmail.com	J,PR/C,52,3189,1995						2011-05- 03				
D6151	S.Mahadevan	drdevan67@gmail.com	J,PR/C,60,054609,1999	Submitted	1	x	x	x	2011-04- 27	2011-05- 12		Figs.4: per fis (2011-0)	5-11)
D6152			J,PR/C,53,2739,1996										
D6152	G.Kaur	gur.1187@gmail.com	J.PR/C.54,3099,1996	Submitted	Corre		x	x	2011-04-	2011-04-			

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	Do104		J,PK/C,28,1200,1985											
	D6155 B.Satheesh	satheesh.b4@gmail.com	J,PR/C,46,250,1992	Submitted	Table	x	x	x	2011-04-04 20	11-05-08				
	D6156	Sumeesine (@gmuniterin	J,JRN,227,181,1998	ooomittee	1 4010	-	-	-	2011 01 01 21					
	D6157 S.Shivashankar	shivu1982@hotmail.com	J,PR/C,45,1026,1992	Compile!					2011-04-20					
	D6158		J,JP/G,35,025101,2008											
	D6159 H.Kumar	amu.harish@gmail.com	J,JP/G,37,115101,2010	Submitted	Table	x	x	x	2011-04-04 20	11-04-07				
	D6160 M.Bhike	megha.bhike@gmail.com	J.PR/C.82,054601,2010			x	x	x	2011-04-04 20	11-04-19				
	D6161		J.NC/A,104,475,1991			-	-	-						
	D6162 S.Singh	sarbjitsingh@yahoo.com	J,PR/C,48,221,1993	Submitted	Curve	x	x	x	2011-04-04 20	11-04-08				
	D6163		J,PR/C,51,3109,1995			-	-							
	D6164		J,EPJ/A,44,385,2010											
	D6165 M.Bhike	megha.bhike@gmail.com	J,PR/C,53,544,1996	Compile!					2011-05-10					
	D6166 B.Jyrwa	bjyrwa90@hotmail.com	J,PR/C,44,1049,1991	Submitted	Curve	x	X	X	2011-04-13 20	11-04-14				
	D6167 R.Mandal	ranjita169@gmail.com	J,PRM,57,195,2001	Submitted	Curve	x	X	X	2011-04-26 20	11-05-02				
	D6168 R.Mandal	ranjita169@gmail.com	J,JRN,102,499,1986	Submitted	Table	x	X	X	2011-04-29 20	11-05-11				
	D6169													
	D6170 S.Shivashankar	shivu1982@hotmail.com	J,JRN/L,119,303,1987	Submitted	Table	x	X	X	2011-04-18 20	11-04-19				
	G0501 P.M.Prajapati	paresh_21soft@yahoo.co.in	J,NP/A,853,1,2011	Submitted	Table	x	X	X	2011-04-04 20	11-04-07				
	G0502 R.Mandal	ranjita169@gmail.com	J,RM,46,413,2011	Submitted	Curve	x	X	X	2011-04-04 20	11-05-13	2nd ref: J,IJP,83,1135,2009	)		
	G0503 R.Mandal	ranjita169@gmail.com	J,ANE,38,757,2011	Submitted	Curve	X	X	X	2011-04-15 20	11-05-13	2nd ref: J,IJP,83,1135,2009	)		
	B.Behera	bivash@pu.ac.in	J,PR/C,66,047602,2002											
	B.Behera	bivash@pu.ac.in	J,PR/C,76,024604,2007								Also NP/A,834,208c,2010.			
	B.Behera	bivash@pu.ac.in	J,PR/C,80,064615,2009											
	B.Behera	bivash@pu.ac.in	J,PR/C,81,024318,2010											
	B.Behera	bivash@pu.ac.in	J,PR/C,81,044610,2010											
	B.Behera	bivash@pu.ac.in	J,IMP/E,18,1917,2009											
	B.Behera	bivash@pu.ac.in	J,IMP/E,14,1063,2005								Also EPJ/A,25,\$1,277,200	5.		
	B.Behera	bivash@pu.ac.in	J,NP/A,734,249,2004											
			J,NP/A,834,155C,2010											
			J,PR/C,83,034616,2011								Relation with 36 and 40 M	eV data in D6079 must be c	larified. Re-measurement	?
			J,PR/C,78,024318,2008								No data for EXFOR compi	lation		
	R.Mandal	ranjita169@gmail.com	J,JRN,141,185,1990								No data for EXFOR compi	lation		
	R.Mandal	ranjita169@gmail.com	J,JRN,142,119,1990								No data for EXFOR compi	lation		

EXFOR WORKSHOPS IN INDIA IS A NEW & UNIQUE MANGERIAL INITIAVE AND HAVE BEEN PHENOMENALLY SUCCESSFUL.

Introduction of EXFOR culture in people including in basic nuclear physics has become relatively an easier task with the new managerial initiatives of holding EXFOR workshops in India.

NDPCI has been very successful to bring people in various fields (e.g., Nuclear Physics, Reactor and Radiochemistry Divisions of BARC, IGCAR, VECC etc.) and students and staff from various Universities across India. A very unique activity. Both experimentalists, theoreticians were covered.

NDPCI is evolving a strong community of EXFOR compilers in India.

At present, NDPCI does not have regular staff in BARC. Regular staff to perform EXFOR compilations are planned. This arrangement is being formulated at this time. NDPCI is identifying University staff and awarding contracts on EXFOR compilations. The first such DAE-BRNS contract has already been awarded to Prof. B. Jyrwa, North eastern univesity, Shillong, Meghalaya in May 2011. NDPCI itself is functioning as a virtual centre and funds have been allocated for a 3 year period. 2011-2014.

•Thus far, since 2006, INDIA contributed in all more than 200 new Indian EXFOR entries based upon experimental data generated in Indian nuclear physics experiments

•The identification for coding into EXFOR of all the suitable Indian articles published in the literature was done in consultation with and by the IAEA-NDS staff.

•India successfully contributed more than 200 EXFOR entries. These include the following.

•10 new entries in 2006 Workshop (Faculty: Otto Schwerer Manual entries)

•31 new entries in 2007 Workshop (Faculty: Svetlana DUNAEVA, EXFOR editor)

• 55 new entries in 2009 Workshop (Faculty: Svetlana DUNAEVA, EXFOR editor software used)

•80 + new entries in 2011 EXFOR Workshop (some under iteration). The details of new Indian EXFOR entries are, for instance, available in "Full EXFOR Compilation Statistics", in the IAEA-NDS site: http://www-nds.iaea.org.exformaster.x4compil.exfor\_input.htm NDPCI promotes several nuclear data physics activities in India . The activities include the following.

- •Basic nuclear data physics measurements.
- EXFOR compilations.
- •Nuclear model based calculations.

• **Processing of evaluated nuclear data files** including development of codes to produce plug-in Iprocessed nuclear data ibraries for Indian discrete ordinates and Monte Carlo codes.

• Efforts to digest the status of covariance error methodology in nuclear data and its applications.

• Preparation of integral Indian experimental criticality benchmarks for integral nuclear data validation studies. (KAMINI, PURNIMA-II benchmarks completed and accepted by the US-DOE). PURNIMA-I benchmarking in progress.

• Reactor parameters sensitivity to nuclear data files and studies –AHWR, CHTR (RPDD, BARC). Study of basic nuclear data errors and propagations in simulations.

### **The Second DAE-BRNS Workshop on** "Covariance error matrix in Nuclear Data and its applications in reactor fuel cycle and technology" during 29<sup>th</sup> November to 3<sup>rd</sup> December 2010

#### Sponsored by



DAE-BRNS, Government of India, Mumbai - 400 085

Hosted and Co-Sponsored by



# THE TOPIC OF THIS DAE-BRNS WORKSHOP INVOLVES A NEW SUBJECT AREA OF NUCLEAR DATA UNDER PROGRESS IN INDIA.

Covariance error matrices in nuclear data are required to correctly assess and to obtain quantitative uncertainties in design parameters in nuclear applications. The error estimations of calculated integral reactor quantities such as critical size, reaction rates, breeding, shielding thickness, power distribution etc., depend on the nuclear data uncertainties for which some error data and information available from the IAEA sources such as



2<sup>nd</sup> DAE - BRNS WORKSHOP 29TH NOVEMBER TO 3RD DECEMBER 2009 VENUE : VEL TECH DR.RR & DR.SR TECHNICAL UNIVERSITY,AVADI,CHENNAI-62

in the basic nuclear data libraries, such as the <u>http://www.veltechuniv.edu.in/workshop/ContactUs.aspx</u> <u>http://www.vel-tech.org/Newsletter/Mar11\_NL5.pdf</u> <u>https://picasaweb.google.com/104618028718471187757/2ndDAEBRNSWor</u> <u>kshop#</u>

"The first Indian DAE-BRNS Workshop on "Nuclear data evaluation techniques including covariances" being proposed by the NDPCI for 2012 Spring.

The proposed nuclear data evaluation workshop under the banner of Nuclear Data Physics Centre of India (NDPCI). It will held during February 13-17, 2012. Venue: Mumbai

Status: Funds sanctioned. To be organized by the NDPCI.

In proposal stage: DAE-BRNS EXFOR WORKSHOPS Under the auspices of the Nuclear data Physics Centre of India, DAE-BRNS,

The 5th Indian EXFOR compilation workshop is planned for 2012(?) and the 6th one in 2013. The dates and venues in India will be fixed in due course by NDPCI in consultation with hosts. (Status: Under informal discussions. Application for funding to be made. To be organized by the NDPCI).



## THANK YOU