

Update of activities
of
Nuclear Data Physics Centre of India
2015-2016

Devesh Raj

Reactor Physics Design Division

Member, PIC, NDPCI

MS, TSC-6 on Nuclear Data and Its Application

NDPCI

Nuclear Data Physics Centre of India

Programme Implementation Committee (PIC)

- P.D. Krishnani, Head, RPDD, BARC Chairman
- D. Raj ,RPDD, BARC Member
- Rajeev Kumar, RPDD, BARC Member
- H. Naik, RCD, BARC Member
- Rahul Tripathy, RCD, BARC Member
- Amar Sinha, Head, NAXPD Member
- B.K.Nayak, NPD, BARC Member
- E. Radha, RPD, IGCAR Member
- G. Pandikumar, NDS, RPD, IGCAR Member
- CSR Murthy, Computer Division Member
- Gopal Mukherjee, VECC Member
- D. Roy, Programme Officer, (BRNS) Member
- S. Ganesan, RR Fellow, DAE Permanent Invitee Member
- R. Srivenkatesan, MCNS, Manipal University Member
- C. Sunil, HPD Member
- SV Suryanarayana, NPD Member
- Abhijeet Bhattacharya, NPD Member
- U. Kannan, RPDD Member
- Alok Saxena, NPD, BARC Member-Secretary, NDPCI

Programme Review Committee (PRC)

- S. Kailas, Ex-Dir. Physics Group, BARC Chairman
- Sangeeta, Scientific Secretary (BRNS) Member
- V.M. Datar, Head, NPD, BARC Member
- A. Goswami, Head RCD, BARC Member
- R.M. Tripathi, Head, HPD, BARC Member
- D. K.Srivastava, Director, VECC, Kolkatta Member
- A.K.Jain, Dept. of Physics, IIT, Roorkee Member
- P. D. Krishnani, Head, RPDD, BARC Member
- K. Devan, Head, RPD, IGCAR Member
- R.S. Mundada, Head, Computer Div. BARC Member
- A.Saxena, NPD BARC Member-Secretary, NDPCI

The Nuclear Data Physics Centre of India (NDPCI) was formed in 2010-11 under BRNS to provide a platform for coordinated efforts in all aspects of nuclear data, viz., measurements, analysis, compilation and evaluation involving national laboratories and universities in India and foreign collaborations.

http://www.barc.gov.in/

Government of India
Department of Atomic Energy
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हिन्दी में A- A A+ BARC DAE Search for...

National Technology Day 2016 Function



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Public Awareness and Outreach Programme

India is poised to realise, over the next few decades, the full potential of nuclear power to substantially contribute to meet the country's growing energy requirements. The academia and students have an important role in informed debates on policy-making on the sustainability of our future growth. BARC has embarked on a public awareness programme to reach out to academic and R&D institutes. [more ...](#)

START UP INDIA

DGFS-Ph.D 2016 Admission

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Botanical Name
Rosa foetida Herrm.

Family	English Common Name	Location
Rosaceae	Persian Yellow Rose	BARC, Trombay, Mumbai

1 2 3 4 5

A premier multi-disciplinary Nuclear Research Centre of India having excellent infrastructure for advanced Research and Development with expertise covering the entire spectrum of Nuclear Science & Engineering and related areas.

Updates

Vacancy
Online applications are invited from eligible candidates for various Group-C posts in BARC, Mumbai

Result
Schedule for CET of DMRIT course and list of candidates called for CET

Result
Result of the selection interview held for the post of Scientific Officer

[Link to DAE Units](#)

Online Services for **VOTERS**
www.eci.nic.in www.nvsp.in

india.gov.in
The national portal of India

Last Updated on: June 3, 2016 2:12 PM

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oces.hbni.ac.in/ndpci/

https://daebrns.gov.in/index.php

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Notifications

MEGA PROJECTS/FACILITIES
NEW
Major Facilities / Centres created through BRNS funding

Vacancy under Research Project Advertisement for the staff appointment under BRNS Project

Bank Details
Please UPLOAD scanned copy of a Cancelled Cheque

Online Submission
Applicants seeking BRNS funding should apply online

PROCESSING OF SUBMITTED APPLICATION
Applicants can log in to check its status

Notification for KSKRA Scheme
Currently there are no Vacancies under the KSKRA scheme




Updates

Invitation of Research Proposals
NEW
Research Proposals are invited on

Visits counter : 64393

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All * marked fields are mandatory.

Scheme *
Base scheme:
Derived Scheme:

Application Number:

Sanction Number:

Application Title (only for RP & SYMP):

Applicant Information
Name: Email:

Subject:

Processing status:

Forwarded status:

Symposium Application List

Total Records: 274

SR. No.	File Number	Type	Applicant Name	Event Title	Event Date(s)	Processing Status	Committee	Last Forwarded To	Last Activity On	View
02649		SAP	Dr. R Kalpana Kalpana	National Seminar on Safety and Regulations Aspects in Healthcare Engineering	22nd and 23rd September 2016		NRFCC	SS	03/06/2016 23:17:05	View
03076		SAP	Ms. Archana Abhijeet Shirke	International Conference on Nanoscale Technology in	27-28 January 2017	Forwarded To Cc	NRFCC	CC	02/06/2016 17:58:56	View

A Thematic Sub-Committee
TSC-6 (Nuclear Data and Its Application)
Formed

Application Title (only for RP & SYMP)

Applicant Information

Name Email

Subject Nuclear Data & Appl

Only for RP

Processing status Select Value

Processing status Select Value

Sr. No.	Title Number	Applicant name	Scheme	Subject	Project title	Processing Status	Last Forwarded To	Committee	Last Activity On	PR Comments /total PRs intimated	view
03082		Dr. Sukhjeet Singh Dhindsa	RP-New	Nuclear Data & Appl	Nuclear Structure & Decay Data Evaluation for Nuclear Dosimetric Applications	Forwarded	MS	NRFCC	02/06/2016 14:16:42		View
02704	30(06)18/08 /2014-BRNS/468	Dr. mohamed musthafa	CRP	Nuclear Data & Appl	MEASUREMENT, ANALYSIS, EVALUATION AND COMPILATION OF NUCLEAR REACTION DATA AT LOW AND MEDIUM	Forwarded	MS	NRFCC	31/05/2016 17:25:53		View
02832	36(6)14 /52/2014-BRNS/2708	Dr. Manjunatha Prasad Karantha	RP-On	Nuclear Data & Appl	Evaluation of nuclear data including covariance error matrix for advanced nuclear systems in India	Sanctioned	OS	NRFCC	13/05/2016 13:54:49		View
01058		Dr. Vidya Devi	RP-New	Nuclear Data & Appl	EXFOR COMPILATION OF NUCLEAR DATA	Sanction Under Process	OS	NRFCC	02/05/2016 10:22:53	1/3	View
01075		Prof. Surjit Mukherjee	RP-New	Nuclear Data & Appl	Study of neutron induced reaction cross section up to 18 MeV for advanced reactor design	Sanction Under Process	OS	NRFCC	02/05/2016 10:22:38	1/3	View
01467		Dr. MALAY PURKAIT	RP-New	Nuclear Data & Appl	Transfer, simultaneous excitation-ionization and excitation cross sections of ion impact with atom	Forwarded	AD	NRFCC	26/04/2016 12:08:37		View
02790	2010/36 /41-BRNS/1777	Dr. Jayalekshmi Madhu Nair	RP-New	Nuclear Data & Appl	Kalman Filter Technique for Data Evaluation in Nuclear Data Science	Under Review	PR	NRFCC	15/04/2016 13:10:11	1/5	View
01897		Dr. Rradip Roul	RP-New	Nuclear Data & Appl	Numerical methods for solving fractional differential equations arising in nuclear reactor dynamics	Under Review	PR	NRFCC	15/04/2016 10:25:12	3/7	View
02892		Dr. Paritosh Bhattacharya	RP-New	Nuclear Data & Appl	A study of gamma, radon, thoron and their progeny level in West Tripura and Khowai Districts of Trip	Forwarded	SC (Dr. A. Vinod Kumar)	NRFCC	04/04/2016 02:29:41		View
01286		Prof. Sanjay Daga Dhole	RP-New	Nuclear Data & Appl	Measurement of formation cross section of metastable states of a few nuclei produced through Photon	Reviewed	MS	NRFCC	19/03/2016 19:19:17	4/6	View
02710	2012/36 /17-BRNS	Mr. B Lalremruata	RP-On	Nuclear Data & Appl	Measurement, EXFOR compilation and theoretical study of nuclear data	Sanctioned	OS	NRFCC	22/02/2016 11:42:04		View
00988		Mr. Nikhil Chowdary	RP-New	Nuclear Data & Appl	DMLS for DAM of Precision and Intricate Nuclear Power Reactor Core Components	Under Review	PR	NRFCC	01/01/2016 21:42:41	2/4	View



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Research Projects => New Regular Research Project => Nuclear Structure & Decay Data Evaluation for Nuclear Models and Dosimetric Applications

Applicant Name : [Dr. Sukhjeet Dhindsa](#) (2016053612RP03082-BRNS)

View Application	
Application Details	
Scheme applied for	Research Projects => New Regular Research Project
Title of the project	Nuclear Structure & Decay Data Evaluation for Nuclear Models and Dosimetric Applications
Project duration	3 years
Committee	Nuclear Reactor and Fuel Cycle Committee
Keywords	evaluated nuclear structure decay data, alpha hindrance factor, two and three quasiparticle bands
Subject category	Nuclear Data & Appl
Study type	Nuclear Structure &
Abstract	The evaluated Nuclear Structure and Decay Data (NSDD) is a central cohesive source of support and stability for new developments in nuclear physics and related areas. Usually, the NSDD evaluation work constitutes a critical input in various applications such as nuclear power, fuel cycles, material analysis and various medical applications in diagnostics and radiotherapy. The present project proposal is mainly focused on the preparation of Evaluated Nuclear Structure Data Files (ENSDFs) for A=216 and 218 mass chains pertaining to evaluation mass region assigned to Indian Nuclear Data Center. A comprehensive horizontal evaluation of alpha hindrance factors of even-even, odd-A and odd-odd nuclides will also be one of the deliverables of this project. Additionally, particle rotor model calculations for theoretical explanation of various high spin features pertaining to two and three quasiparticle rotational structures observed in A=160 mass region, will also be performed.
Total budget(INR)	24 Lakhs
Application status	Forwarded

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Research Projects => New Regular Research Project => Nuclear Structure & Decay Data Evaluation for Nuclear Models and Dosimetric Applications

Applicant Name : [Dr. Sukhjeet Dhindsa](#) (2016053612RP03082-BRNS)

Year wise Requested Budget				
Account Heads	Financial Year 1	Financial Year 2	Financial Year 3	Total(INR)
Equipments	330000	0	0	330000
Staff Salary - JRF	0	0	0	0
Staff Salary - SRF	0	0	0	0
Staff Salary - RA (1)	432000	432000	432000	1296000
Technical Assistance	0	0	0	0
Consumables	100000	40000	0	140000
Travel - PI	105000	105000	105000	315000
Travel - PC/DC	35000	35000	35000	105000
Contingencies	30000	30000	30000	90000
Bank Interest	0	0	0	0
HRA (To be entered by BRNS)	0	0	0	0
Salary Arrears (To be entered by BRNS)	0	0	0	0
Incentive to the Awardee (only DAE-SRC)	0	0	0	0
Overheads	75150	45900	42900	163950
Total	1107150	687900	644900	2439950
Grand Total				2603900
(Equivalent amount of overhead would be released at the completion of the project.)				

~40,000 USD/3YEARS

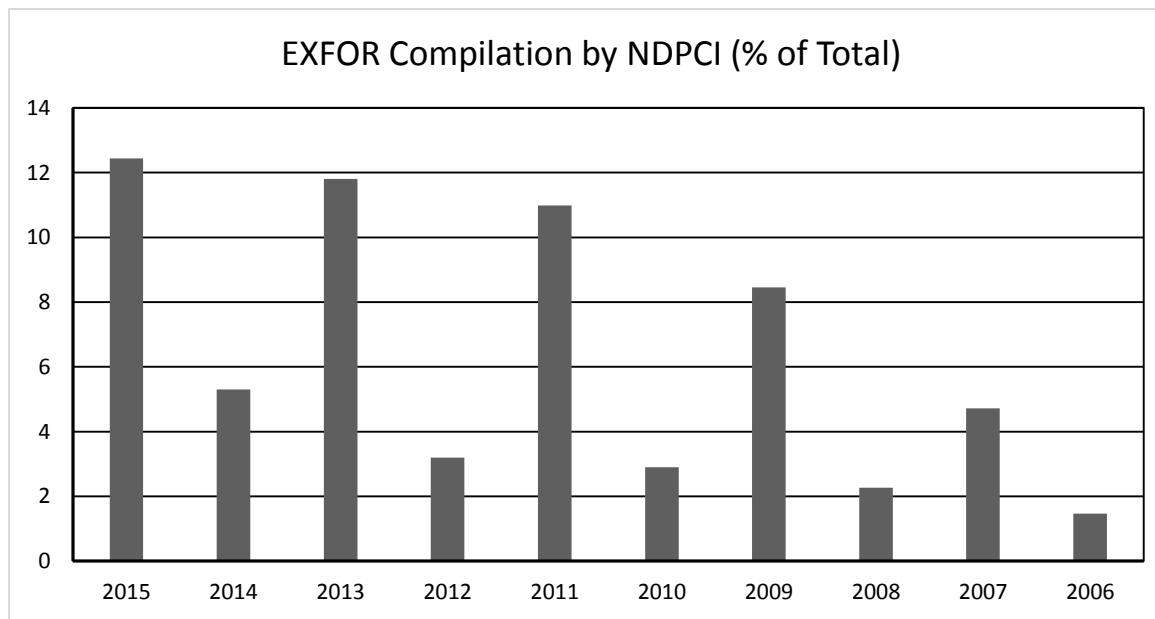
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EXFOR Compilation work

	NNDC	NEA-DB	NDS	CJD	ATOMKI	CAJaD	CDFE	CNDC	CNPD	JCPRG	UkrNDC	NDPCI	KNDC	Sum
2016	12		6				1		2	3	1		2	27
2015	98	37	55	7	15		27	30	29	17	12	49	18	394
2014	92	104	54	7	23	1	21	24	42	25	14	23	4	434
2013	122	82	35	14	11	16	12	7	25	38	16	51	3	432
2012	128	201	45	9	22	26	20	18	41	46	10	19	9	594
2011	78	97	54	19	16	47	36	10	50	50	13	59	8	537
2010	75	100	67	20	8	30	20	19	53	57	9	14	10	482
2009	132	179	85	11	26	19	19	11	70	104	19	63	7	745
2008	94	192	145	19	15	20	27		84	22	27	15		660
2007	125	196	37	21	15		25		84	149	34	34		720
2006	159	158	99	26	16	10	26	21	50	80	25	10		680



More Details at https://www-nds.iaea.org/nrdc/nrdc_2016/progres/ndpci.pdf

Sanction Number	Title of the Project	Principal Investigator	Principal Collaborator	Cost and Duration	
2012/36/17	Special Project under Nuclear Data Physics Centre of India entitled, "Measurements, EXFOR Compilation and theoretical study of nuclear data"	Dr. B. Lalremruata Department of Physics Mizoram University (Central University) Tanhril-796004 Aizawl, Mizoram India	Dr. S.V. Suryanarayana, NPD, BARC Dr. Alok Saxena, NPD, BARC Dr. H. Naik, RCD, BARC	25.64-Lakhs* 3 years 2012-15	Project Ongoing
2013/36/75	Continuing EXFOR compilations and participation in measurement of High Energy Photon and Neutron induced reaction cross-sections of structural materials (e. g. Fe, Co, Ni, Cr, Zr etc.) and materials related to medical isotopes (e.g. Mo)	Prof. (Mrs.) B. Jyrwa, Department of Physics, North Eastern Hill University, Shillong 793 022	DR. Haladhara Naik, SO(G) Radiochemistry Division, BARC Dr. S.V. Suryanarayana, SO(G), Nuclear Phys. Division, BARC DAE Coordinator Dr. Alok Saxena, NPD, BARC	24.78 Lakhs 3 Years 2013-2016	Project Ongoing

Sanction Number	Title of the Project	Principal Investigator	Principal Collaborator	Cost and Duration	
36(6)/14/92/2014	Dr.Rudraswamy.B Dept of Physics, Jnanabharathi campus,Bangalore University Bangalore- 560056	Compilation of Experimental Nuclear Reaction Data using EXFOR Editor and Measurement of Nuclear Reaction Cross section using Kamini Reactor	Dr. G. Pandikumar, IGCAR Dr. E. Radha, IGCAR	24.12 Lakhs 3 years 2014-2017	Project Ongoing
Accepted for sanction Fund is yet to be released	Dr Vidya Devi Department of Physics, IET Bhaddal Technical Campus, Bhaddal, P.O. Mianpur, District Ropar	EXFOR compilation of nuclear data	Dr. Alok Saxena, Head, NPD, BARC Devesh Raj, RPDD, BARC	11.89 Lakhs 2 years 2016-2018	

Sanction Number	Title of the Project	Principal Investigator	Principal Collaborator	Cost and Duration
36(6)/14/52/2014- BRNS/2708	Evaluation of nuclear data including covariance error matrix for advanced nuclear systems in India	Dr. K. Manjunatha Prasad Professor of Mathematics Department of Statistics Manipal University Manipal-576 104, Karnataka	Dr. S. V. Suryanarayana, NPD, BARC Dr. H. Naik, RCD, BARC Dr. Pandikumar, IGCAR Dr. Ravindra B. Bapat, Professor, Indian Statistical Institute, Delhi	22.27 Lakhs 2 Years

Sanction Number	Title of the Project	Principal Investigator	Principal Collaborator	Cost and Duration
Accepted for sanction Fund is yet to be released	Cross section measurements for Sodium, Iron and Data compilation	Dr Ajay Kumar B-42, Brij Enclave, Sunderpur, Near Life Line Hospital Varanasi, Uttar Pradesh.	Dr B. K Nayak, SO/H+, NPD, BARC	18.25 Lakhs 3 Years .
Accepted for sanction Fund is yet to be released	Study of neutron induced reaction cross section up to 18 MeV for advanced reactor design	Prof Surjit Mukherjee Professor of Physics Physics Department, M.S. University of Baroda, Vadodara	Dr. H. Naik, RCD, BARC Dr. S. V. Suryanarayana, NPD, BARC	11.28 Lakhs 3 Years

Thank You
For
your
Attention !