

FIRST ANNOUNCEMENT

The 4th DAE-BRNS Theme Meeting on EXFOR Compilation of nuclear data

Venue:

April 4-8, 2011, at Department of Physics, Panjab University, Chandigarh, 160014, India

Dear Colleagues,

We are pleased to announce that “**The 4th DAE-BRNS Theme Meeting on EXFOR Compilation of nuclear data**” will be held during April 4-8, 2011, at the Department of Physics, Panjab University, Chandigarh, 160014, India.

The following topics will be covered:

- Scope, contents, objectives and importance of EXFOR Database
- Indian nuclear data mirror website of NDS
- Basic introduction: How to use EXFOR
- ExforEdit software (http://www-nds.iaea.org/nrdc/nrdc_sft/)
- Digitization software for EXFOR applications (http://www-nds.iaea.org/nrdc/nrdc_sft/)
- Indian nuclear physics and nuclear data experiments
- Tutorials and EXFOR coding exercises
- Review of creation of new-- EXFOR entries
- Practical computer sessions with feedback

All delegates are encouraged to bring their laptops.

Those who are interested in participation may send their request by e-mail to the Technical Convener/ Local Convener up to February 28, 2011 with request of financial support if required. M.Phil./II year M.Sc. students, JRFs and SRFs may also apply sending their CV with references through their Head of the Department. There is a registration fee of Rs. 650.- for Indian participants. For foreigners, the registration fee is US \$600. Travel details and request for accommodation may be sent to the Local Convener.

For details, please contact:

Technical convener: Dr. Alok Saxena, Nuclear Physics Division, BARC, Trombay, Mumbai-400085;

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Local Convener: Dr. B.R.Behera, Department of Physics, Panjab University, Sector-14, Chandigarh-160014. Ph- 0172-253-4461, Mob-9815324956.
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Apart from departmental participation, we will be inviting selected faculty staff, research fellows and students from different universities in India (who are potential participants in the Indian National Nuclear data Network under formation in India) to attend the Theme Meeting. Researchers from other NRDC countries are also welcome to participate in this important event. Invitation letters will be sent to them as required for formalities.

Background Information

The 4th DAE-BRNS Theme Meeting on EXFOR Compilation of nuclear data

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India

India is a member of the NRDC network that now has 14 members. One of the important databases in the IAEA nuclear data mirrored in India at the BARC site (<http://www-nds.indcentre.org.in>), is EXFOR, which is the compilation of published experimental nuclear reaction data for incident neutrons, gammas and charged particles on various targets. ND evaluators, applied users and experimentalists use this widely. There is a specific format in which the experimental data is coded into the EXFOR system for ready recovery and comparison with evaluated nuclear data used by reactor physicists. The international network of various nuclear reaction data centers at the IAEA, NNDC (USA), NEA (France), RNDC (Russia) etc. perform this task. BARC has already initiated this EXFOR activity since 2006 with inputs from BARC (e.g., RPDD, NPD, RCD etc.) and universities.

The DAE-BRNS conducted successfully two EXFOR training Workshops in Mumbai one in 2006, 2007 and another in 2009. In each of these three workshops, more than 40 delegates (experimental nuclear scientists, University faculty, Ph. D. and M.Sc., students) took active part and got a “first time” exposure to a classical nuclear data physics activity of EXFOR compilation culture.

About NRDC: The official website of NRDC is <http://www-nds.iaea.org/nrdc/> which describes NRDC functions in detail. All the presentations by various Member States are available in this URL and are not repeated here to save space. The NRDC was established with 4 core centres (US, France, Austria (IAEA) and Russia-Obninsk) in 1966. The 4 ND centres coordinate the world-wide collection, compilation and

dissemination of nuclear reaction data efficiently under the auspices of the IAEA. There are now 14 ND centres including regional, national and specialized data centres that provide essential complementary functions to the 4 core data centres by assuming particular responsibility for the collection and dissemination of data of a specialized type or application. The other NRDC data centres (country/date of joining NRDC) are as follows: Russia-Moscow/1974; Japan-Sapporo/1975, Russia-Photonuclear data, Moscow/1982; China/ 1987, Japan-JAERI/1991, Hungary/1992, Russia-Sarov, 1997, Ukraine/1998, Korea-KAERI/ 2000, India (2008). Germany joined the NRDC in 1974 and Japan-RIKEN in 1983 but discontinued. Their tasks are handled by other data centres.