

お知らせ(そのⅡ)

NEAデータ・バンクからのデータサービスについて

原研核データセンター

NEA Data Bank では従来のデータサービスに加え、データプロットのサービスもすることになりました。以下に示したものはそれらのサービスについてのアナウンスです。

原研核データセンターは国内の核データ利用者からのデータ要求をNEA Data Bank に伝える窓口の役割を務めておりますが、今後、データを要求される際に、このデータプロットも希望される場合にはその旨をお知らせ下さい。

Nuclear Data Services from the NEA Data Bank

Since the work of the CCDN (Neutron Data Compilation Centre) was taken over by the Data Bank in 1978, a number of changes, and improvements, have been made to the way in which nuclear data and especially neutron cross-section data are stored and presented to requesters. This note explains our present services, and some of the improvements ready now or expected during 1983. The Data Bank services are financed directly by its Member countries and no charges are made to individual users in these countries for data or programs supplied.

1. Data available to requesters

As you will already know, the main files currently available from here, stored on disk, and on which selective searches can be made, are:

- EXFOR numerical values for neutron cross-section measurements
- CINDA bibliography for neutron physics
- The large evaluated neutron data files:
ENDF/B-IV, parts of ENDF/B-V, JENDL-1 and parts of JENDL-2, KEDAK-3, UKNDL-2. We hope to receive KEDAK-4 and the full JENDL-2 files in 1983.
- The ENSDF file of nuclear structure data
- The KACHAPAG file of charged particle data in EXFOR format.

Many other smaller files, including dosimetry and fusion product data evaluations, general evaluations from non-OECD countries, photonuclear data and general and special purpose group cross-section sets, can be obtained as full copies on request. All these files are listed periodically in "NEWS FROM THE NEA DATA BANK", and separate copies of the current list can be obtained from the Data Bank on request.

2. New data services coming in 1983

Computer plotting: A Versatec 25 cm. width continuous plotter, coupled to a Tektronix storage oscilloscope for "setting up" the axes, scales and energy windows so as to give the best possible presentation of the data when it is plotted out on the Versatec, is in regular use, coupled to the PDP 11/70 computer.

We now feel ready to prepare a limited number of plots as a service to users requesting data. Before requesting plots, we would ask you to work out carefully what you would like to see on paper: not more than five data sets per plot, possibly with one evaluated data curve for comparison. Some sample plots are attached: the resolution can be extremely good, though even this will not make overcrowded plots easy to read.

The Joint Evaluated File (JEF): A first version of this file, JEF-1, will start benchmark testing in 1983, in laboratories in countries participating in the project. The project's Scientific Coordinating Group will decide later in 1983 on dates for release to users in Data Bank Member countries, as benchmark testing progresses.

3. Computer program services

This note is written to inform nuclear data users; however the Data Bank invests a similar level of effort in collecting, testing and distributing computer programs for nuclear energy applications. Most larger laboratories in the NEA service area (Western Europe plus Japan) have a liaison officer for our computer program service, who can advise you at once on the programs available from the Data Bank.

4. NEWS FROM THE DATA BANK

The newsletter is sent out about five times a year to a distribution list containing at present mostly names of computer program users. It does however contain frequently updates of the full list of nuclear data computer files available, and will in future contain more news of our nuclear data work. Please write to us if you wish to receive this newsletter.

5. Other information about nuclear data available

The best general reference guide to the neutron data available is CINDA, published annually by IAEA. An EXFOR entry in the "Documentation" column for a particular experiment shows that the corresponding data is on file at NEA Data Bank and in the other regional data centres. You may find in your institute library a copy of the "Index to Large Evaluated Data Files", giving the detailed contents of those files available for selective search. It is hoped to reissue this index in 1984. A copy of our "User Guide to Numerical Neutron Data Retrievals" is essential for users intending to request data on magnetic tape for direct entry to their computer programs, and can be obtained on request.

Simplest of all, please telephone, telex or write to us to explain your needs for nuclear data or computer programs. A discussion with the physicist responsible for making the search can be extremely helpful in getting exactly as much information as you want, and no more. We have three or four million data points on our searchable disc files. For computer programs, you may consult "Computer Programs Abstracts" to get a better idea of what is available. Your institute's liaison officer with NEA Data Bank will have a copy. A "Nuclear Programs Index" will be published in 1983 for wider distribution.

6. How to contact the Data Bank

Our address is : NEA Data Bank
91191 Gif-sur-Yvette CEDEX
France

Telephone : (6) 908-49-12, (6) 908-46-53 or (6) 941-39-65

Telex : NEADATA 690920 (France)

The head of the Data Bank is Mr. Johnny ROSEN. Requests for nuclear data should be addressed to Dr. Bernd Neumann, and for computer programs to Dr. Luis Garcia de Viedma.

7. Conclusion

The staff of the Data Bank, and in particular the nuclear data group, wish you every success in 1983, and hope that our services may prove useful to you.

Nigel Tubbs
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