

Japan Charged-Particle Nuclear Reaction Data Group (JCPRG)

Executive Committee

Progress Report to the NRDC Meeting
May 27-30, 2002

General

In 2001, we have carried out the following activities:

1. Compiling the CPND(Charged Particle Nuclear Reaction Data) (25 entries) produced in Japan with the NRDF(Nuclear Reaction Data File) format.
2. Translating the NRDF data into the EXFOR data (25 entries, including 15 new).
3. Working on a new web-based system, so-called HENDEL(Hyper Editor for Nuclear Data Exchange Language), an online editor-compiler for both NRDF and EXFOR.
4. Distributing the CPND and promoting its utilization in Japan.
5. Creating a new system, named SyGRD (Graph Reading and Displaying numerical data), with an image analysis software.

The regular JCPRG budget has ended this year (2001). Starting from 2002, the budget will be drawn on a competitive basis, so that we have to apply for it each year separately. The budget of 2002 was accepted to be almost the same as 2001.

NRDF Data Compiling Activity

In 2001 we newly compiled 25 entries (360 tables, 2.2 MB) based on the data obtained with the accelerators in Japan. The data for 16% of entries and 123 tables (34%) among 360 tables were obtained from the authors directly.

EXFOR Translation from NRDF

Recent files made by translation from NRDF to EXFOR are

- E016 31 entries
- E017 9 entries
- E018 7 entries
- E019 12 entries
- E020 10 (5/10) entries from 15 entries in NRDF compiled in 2000
- E021 15 (7/15) entries from 25 entries in NRDF compiled in 2001

We can now convert NRDF files into EXFOR format by HENDEL. However, we found that the NRDF dictionary must be completed by comparing it with the EXFOR codes in order to perform the conversion smoothly. Furthermore, several codes (e.g. the Institute Codes) should be proposed as the EXFOR Codes.

Customer Services

Retrieval services of NRDF data by using computers in the Hokkaido University Computing Center were completely stopped in 2001. Now the retrieval services of NRDF and EXFOR are available via a WWW homepage (<http://jcprg.sci.hokudai.ac.jp/>).

In order to extend the NRDF data service, we are developing a retrieval system based on the IntelligentPad.

ANNEX: Organization and members of JCPRG

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