

**Japan Charged-Particle Nuclear Reaction Data Group
(JCPRG)**

Progress Report to the NRDC Meeting
May 15-19, 2000

The Executive Committee of JCPRG

General

In 1999, we have carried out the following businesses:

1. Compiling the CPND(Charged Particle Nuclear Reaction Data) produced In Japan with the NRDF(Nuclear Reaction Data File) format,
2. Translating the NRDF data into the EXFOR data,
3. Making retrieval systems using internet and the InteligentPad for the CPND in both of NRDF and EXFOR,
4. Distributing the CPND and promoting utilization in Japan.
5. Shift of the NRDF system from computer of the Hokkaido University Computer Center to UNIX system of the Laboratory Workstation.

In 1999 much of our effort was concentrated on the third and fifth subjects mentioned above. The details of the work will he reported later. This year (2000), we will complete a new electric editor system for compiling and inputting the NRDF data and a revised version of the EXFOR translation system.

NRDF Data Compiling Activity

In 1998 we newly compiled 14 entries (457 tables, 1.2 MB) based on the data obtained with the accelerators in Japan. Their data were produced in the following institutes:

- Tohoku Univ.(CYRIC)-1 entry
- KEK(Tanashi Accelerator)-4 entries
- Research Center for Nuclear Physics, Osaka Univ. (RCNP)-6 entries
- RIKEN Accelerator-3 entries

By March of 2000 the amount of the compiled data has reached 25,567 tables of about 72.66 MB. Our aim is to store all data produced with Japanese accelerators in the NRDF database.

EXFOR Translation from NRDF

In 1999, we made the TRANS E018 file which included 8 entries translated from NRDF data. For these entries sent to IAEA on May of 1999, we received some comments on June. After studying the comments, we had the conclusion that it is necessary to update the translation system based on the EXFOR archival dictionary and the new compilation rules of EXFOR. However, a new version of the transition system has not yet completed. Therefore, the E018 entries including some troubles are still in a pending stage.

In 2000 we plan to complete the revised translation system on the workstation. By using the new translation system, we are expecting to make EXFOR data files from NRDF data smoothly.

Customer Services

Retrieval services of NRDF and EXFOR data are available by using computers in the Hokkaido University Computing Center. In addition to these services, the WWW homepage (<http://nucl.sci.hokudai.ac.jp/~nrdf/index.html>) has been opened to public. In order to extend the NRDF data service, we have started to make a developed retrieval system based on the IntelligentPad.

ANNEX: Organization and members of JCPRG

Advisory committee:

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Masayasu ISHIHARA (Tokyo Univ.)
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NRDF System Maintenance:

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Working Staff of Making a Data-base based on IntelligentPad:

Yoshihide OHBAYASI (Hokkaido Univ.)
Hiroshi MASUI (Hokkaido Univ.)

Working Staff of Making a Compiling Editer System:

Hirokazu OHMI (Hiokkaido Univ.)