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## WEB-BASED UTILITY SYSTEM FOR NUCLEAR REACTION DATA

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Japan Charged-Particle Nuclear Reaction Data Group (JCPRG) belongs to Nuclear Reaction Data Center Network (NRDC), and has compiled Japanese experimental charged particle nuclear reaction data base described in Nuclear Reaction Data Format (NRDF) and in Exchange Format (EXFOR). JCPRG has developed systems to utilize NRDF files [1,2,3]. One of the achievements of JCPRG with relation to the web-based utility system is the release of a new retrieving and plotting engine (DARPE) for NRDF in 2003 (See <http://www.jcprg.org/>).

JAERI Nuclear Data Center is also a member of NRDC and has developed Japanese Evaluated Nuclear Data Library (JENDL) with the aid of Japanese Nuclear Data Committee. The newest version of JENDL is JENDL-3.3 [4] which covers neutron-induced reactions for 337 nuclides and  $10^{-5}$  to 20 MeV of incident neutron energy.

The formats for experimental and evaluated nuclear data files (e.g. EXFOR and ENDF format) are designed to record various types of data. Users may feel difficult to use them as they are, since they include some unfamiliar terminologies and particular format and procedures. Therefore, it should be convenient to develop tools for general purpose utility such as retrieval and plotting, which can reduce the distance between files and end users. Of course, expert users of EXFOR and ENDF format can utilize evaluated data and experimental data without any difficulties. However, the general users are not familiar with current utility codes.

JCPRG and JAERI started a new joint project to develop new utility system for the experimental data and evaluated data. For users' availability, an internet browser (e.g. Internet Explorer and Netscape), which most users are familiar with, is chosen as a client interface between the databases and users. Users are able to search any data they want and obtain image files of them, by submitting queries to the database server on the web page without any requirement of additional software installation. The preliminary version of the server side CGI script is now working.

[1] M. Chiba *et al.*, Journal of Information Science 12(1986)153.

[2] Y. Ohbayasi *et al.*, Journal of Information Science 26(2000)29.

[3] Y. Ohbayasi *et al.*, Journal of Nucl. Sci. Tech., Suppl., 1(2000)566.

[4] K. Shibata *et al.*, Journal of Nucl. Sci. Tech. 39(2002)1125.

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