

Nuclear Data Center (NDC) of Korea Atomic Energy Research Institute (KAERI)

Progress Report to the
IAEA Technical Meeting of Nuclear Reaction Data Centers (NRDC)
23 - 25 April, 2013

Young-Ouk LEE (yolee@kaeri.re.kr)
Web: <http://atom.kaeri.re.kr/>

1. General

Nuclear Data Center(NDC) of Korea Atomic Energy Research Institute(KAERI) has a director, 10 permanent staffs (2 in evaluation, 1 in measurement, 2 in atomic and molecular data, 2 in processing and validation, 3 in applications), one PhD student and one secretary. Mission of KAERI/NDC is dissemination outcomes of international network as well as promoting domestic nuclear activities and related applications.

2. EXFOR Activity

Since the NRDC2012 Meeting, we are continuing data compilation for nuclear reaction data obtained in Korea under the guidance of IAEA/NDS.

The total 9 Entries were produced and listed in Table 1. These entries contain mainly an experimental data for neutron total cross section and photonuclear reaction using the bremsstrahlung beam. Four of total 9 entries were entered at the EXFOR and the others were compiled, that is a preliminary status.

Table 1. The present compilation statistic

#	TRANS	ENTRY	SUBJECT	STATUS
1	G025	G3106	Gamma	EXFOR
2	G025	G3107	Gamma	EXFOR
3	3156	30828	Neutron	EXFOR
4	G025	G3108	Gamma	EXFOR
5		G3109	Gamma	PRELIM
6		30829	Neutron	PRELIM

7		30830	Neutron	PRELIM
8		30831	Neutron	PRELIM
9		G3110	Gamma	PRELIM

■ Compilation of 30830

Regarding the compilation of 30830 entry (J,KPS,59,1681,2011), the draft was compiled in cooperation with China Nuclear Data Center (CNDC) and NDS.

1. Received the compilation work from IAEA/NDS on Oct. 17, 2012.
2. Send e-mail to author in order to get the experimental data on Nov. 2
3. Send e-mail to CNDC due to no response of the author until Nov. 16.
 - According to Dr. Guochang Chen, the same experimental data was published in other article which is Chinese Physics C in 2010, Vol.34, No.2, p.177-181.
4. In cooperation with NDS and CNDC, the 30830 draft showed the following results.
 - Main reference: (J,CPH/C,34,177,2010)
 - Second reference: (J,KPS,59,1681,2011)
5. Closed the compilation of this entry on Dec. 18. But we did not get the approval of author.

3. Checking Code

The drafts are checked through the following website.

<http://www.jcprg.org/exfor/tool/>

4. Status of Compilation

The EXFOR compilation activity of KNDC is ongoing since 2009 under the guidance of IAEA/NDS. From 2009 to 2012, KNDC has produced 35 entries as shown in Fig. 1.

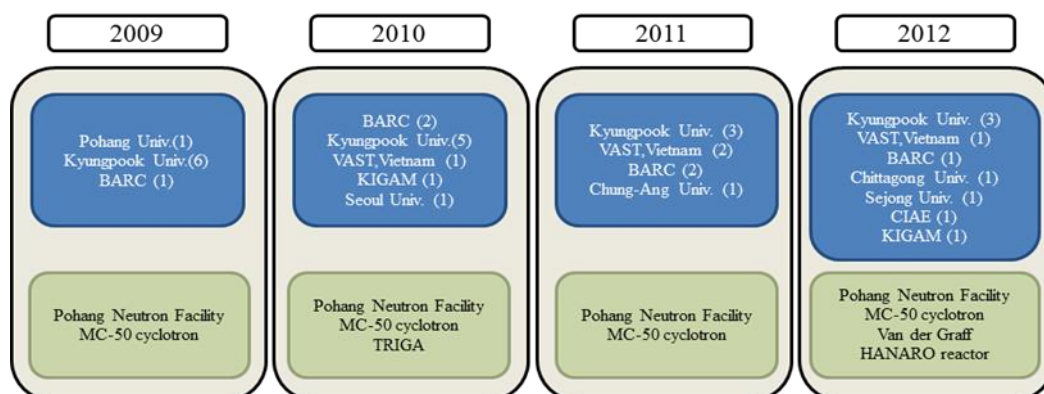


Fig. 1. EXFOR compilation activity of KNDC

Parenthesized number: Number of entries, **Facility:** Facility which provided data compiled