

1982-03-17

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Subject: 1. EXFOR G-series  
2. EXFOR V-series  
3. EXFOR D-series, CPND  
4. EXFOR TRANS 3042

We are sending out EXFOR tapes containing files with TRANS 3042, TRANS D008, TRANS G001, TRANS V017 and Dictionaries. Some comments follow.

1. EXFOR G-series

TRANS tape G001 contains in entry G0001 the isomeric ratio for ( $\gamma, n$ ) reactions in Mo-92, Zr-90, Sr-86 and Se-74 by Pam Zui Hien et al. (National Inst. for Nuclear Research, Vietnam). The experiment consisted of a simultaneous study of the ( $n, 2n$ ) and ( $\gamma, n$ ) reactions on above nuclei. We therefore decided to compile the ( $n, 2n$ ) data as usual, however with a cross-reference to entry G0001, with which we opened a new EXFOR "G-series" of photoreaction data. We have neither intention nor manpower for a systematic compilation of photoreaction data but may eventually compile such photon reaction data that have direct relevance to neutron reactions as in above example.

Clearance: J.J. Schmidt *J.J. Schmidt*

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2. EXFOR V-series

- a. TRANS tape V017 contains in entries V0027 and V0028 an evaluation by Dimbylow (National Radiological Protection Board, UK), of neutron reactions on C, O, N and others in the energy range from 20 to 60 MeV, normalized at 20 MeV to the corresponding ENDF/B-4 data. These data are of importance for biomedical purposes.
- b. The data demonstrate that ENDF/B is presently inadequate for neutron data in this energy region, because most of the about 50(!) neutron and charged particle producing reactions do not have an MT number defined. We wish to submit this example to the forthcoming data centers meeting to discuss whether ENDF/B is to be extended for such type of data or how else such data are best compiled.
- c. Entry V0028 contains "Kerma factors" derived from the same data. The "Total Kerma factor" is defined as the sum of the Kinetic energies of all charged particles produced by the incident neutrons and absorbed in the target material. The "Partial Kerma factor" is the same for a specific charged particle species, e.g. protons. This type of data is of interest not only in radiobiology, as in the present example, but also in the field of radiation damage in reactor physics. Tentatively we have introduced the new code "KER" in subfield 6 of REACTION and the unit code "GY\*M-SQ" = Gray (Gy) times square meters. We submit these codes as proposals for discussion at the data centers meeting.
- d. Entry V0029 contains evaluated 14.7 MeV cross-sections with covariances. A related completeness check of EXFOR and CINDA was communicated in a separate 4C-Memo. (4C-3/255)
- e. Attached is the document IAEA-NDS-34 containing the present contents of EXFOR-V.

3. EXFOR D-series, CPND

- a. TRANS tape D008 contains the entry D0029 with 182 subentries with proton induced reactions that we obtained from the authors before publication in Int. J. Appl. Radiat. Isot.
- b. After the regrettable close down of Kachapag we shall do our best to take care of the CPND master file. Presently, we are running TRANS A007 through our Exfor check program and will transmit the corrected version, eventually after checking back with CAJaD. We are in contact with the IAEA Mission of the Federal Republic of Germany to look for possibilities for a continuation of Kachapag.

4. EXFOR TRANS 3042

This neutron data TRANS tape contains 7 more entries from the People's Republic of China.