

Japan Charged-Particle Nuclear Reaction Data Group

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Memo CP-E/043

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To: Distribution
From: OTSUKA Naohiko and KATO Kiyoshi
Subject: EXFOR compilation scope for charged-particle data
Reference: CP-A/151, CP-C/336 and CP-D/385

The EXFOR compilation scope for charged-particle data was discussed in JCPRG:

- (1) We understand that the EXFOR is unique database as worldwide nuclear reaction data both for the energy field and for the non-energy field.
- (2) The boundary of the “energy field” is being extended. In Japan, GeV is familiar in the energy field. The high intensity 3 GeV proton accelerator (under construction at JAERI) will be used for nuclear transmission studies. BNL-AGS 14.6 GeV/c proton data compiled into EXFOR H library are one of the important starting point to tune transport codes relevant to this project.
- (3) *EXFOR is alive* - EXFOR should be maintained so that it will be useful for our child and grandchild generations. JCPRG hopes to include all charged-particle nuclear reaction data into the EXFOR as long as these data are fit for the EXFOR format.
- (3) We agree to assign new centre identification characters (CIC) for meson induced, high energy, and heavy-ion induced reaction. The implementation of this separation is useful for centres which are not interested in data with such conditions of incoming particle. We hope NDS will maintain entire entries irrespective to CIC.
- (4) On the decision of cutoffs, some cases must be carefully studied, for example,
 - Light particle induced reactions on unstable nuclei which are studied by inverse reactions
 - Excitation functions which contain both lower and higher energies than cutoff energy
- (5) New CIC entries must be well qualified as well as present EXFOR entries. Present rules for code additions should be applied to new CIC entries. Dictionary and LEXFOR must be maintained to enable compilation and checking of new CIC entries by any network centre.

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