

17 December 1985

To: Distribution

From:  
D. Gandarias Cruz and H.D. Lemmel

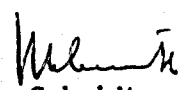
Subject: Debrecen/Obninsk EXFOR entries

After sending out our TRANS tape 3055 we realized that the following entries refer to the same work:

30814.	-	40829.
30816.	-	40830.
30817.	-	40701.

They refer to an Obninsk/Debrecen co-operation, where CJD made entries from the 83Kiev publication, and NDS made entries based on an IAEA research contract with Debrecen. It seems that both of the centers had good arguments to assume responsibility for compiling these entries (although each of them should have informed the other by telex).

In this particular case it is difficult to decide by objective criteria which center should be responsible, and it would be a wasted effort to refine the rules as to cover such rare cases.


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Analyzing the differences of the EXFOR entries we find that NDS has included more recent additional references containing essential error-analysis information and, in 30814.002 and 30816., revised numerical data which, according to Priv. Com. Csikai, supersede the data published in 83Kiev and given in the CJD entries.

Note that entry 40701 contains a significant error. The partial reaction $\text{Np-237}(\text{N},2\text{N})$ to the 22.5 hrs state should not be coded as 93-NP-237(N,2N)93-NP-236,,SIG which designates the total reaction, i.e. the sum of both partial reactions. In this particular case where it is still uncertain which of both is the ground state, the isomer extension of the product nucleus could be chosen either as -M (as preferred by NDS) or as -G, the level actually meant being defined under DECAy-data.

We would therefore suggest to mark the CJD entries as superseded and maintain the NDS entries, with apologies to CJD.

Note that entry 30815 on $\text{In-115}(\text{n},\gamma)\text{m}$ is another example of Debrecen/Obninsk co-operation which, however, has not been compiled by CJD.

Last but not least: Season's greetings and a happy New Year!