

To: Distribution 20 July 1978

From: O. Schwerer *O. Schwerer*

Subject: 1. Exfor completeness check for Ba cross sections
2. TRANS-VOO8

1. TRANS-VOO8 contains one entry, namely VIEN-VOO12 which is the evaluation by Strohmaier et al. (Vienna) for the Barium isotopes 134-138 covering all quantities except (n,α) . I would like to give the following comments on this:

- 1) The compilation was done in close contact with one of the authors (Brigitte Strohmaier) and approved before transmission. The physical meaning of some of the quantities given (as (n,γ) , $(n,n'\gamma)$, (n,p) cross sections) and the comments on the differential elastic cross sections given in subentry 1 resulted from detailed discussions with the author and are not explained in detail in the publication.
- 2) The entry has been checked carefully. During the compilation process we found 2 inconsistencies concerning residual metastable states which led the author to the recalculation of some of the Ba-134 and Ba-138 cross sections. The few subentries which had to be punched were checked with particular care.
- 3) We have used some quantities combining particle and process codes in SF3, as $(N,G+X)$, $(N,N+X)$, $(N,P+X)$, according to our proposal in Memo CP-D/64.

2. During the compilation of the Vienna Ba evaluation (see item 1.) a number of cross-sections missing in Exfor has been found. The references concerned are listed on page 2. We would like to request all centers to compile these data with high priority.

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Barium data missing in Exfor

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