

Memo 4C-3/235

1979-06-25

To: Distribution

From: K. Okamoto *K. Okamoto*

Subject: Cross-Sections of fission product nuclei

Reference: Memo 4-C 2/108

We appreciate very much the completeness check done in the field of cross-sections of fission product nuclei.

Please find attached an interim reply on the area 3 data requested.

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

Distribution:

1. S. Pearlstein, NNDC
2. N. Tubbs, NEA-DB
4. V.N. Manokhin, CJD

NDS: P.M. Attree
N. DayDay
G. Lammer
H. D. Lemmel
K. Okamoto
J.J. Schmidt
O. Schwerer
P.M. Smith
3 spare copies

Capture cross-sections from area 3
missing in Exfor and requested by Igarasi

1. The following data were compiled and will be transmitted:
 - item 2: Sr-86, Pd isotopes, 78Harwell, Musgrove, AUA
EXFOR 30487
 - item 4: Mo-98, Cd-114, I-127, Pr-141, 70Madurai 2, 615,
and 12 Chaturvedi, BHU
EXFOR 30493
 - item 7: Pd-108, -110, NCL 5, (16), (1972) 1025, Lakshmana Rao,
AUW
EXFOR 30492
 - item 8: Pd-110, Cd-114, -116, INR-1173 (1978), Herman, IBJ
EXFOR 30482
2. The other requested data mostly from India will be compiled with priority if possible. Some of the data may be unobtainable as they are numerically unpublished and old. (Specially item 6 and 9).

2 Yugoslavian data Sr-88 (item 3) and Ba-138+ (item 14) need careful checking because it seems that these values were subsequently revised by the same authors.
3. Please note the misspelling of one request:
 - item 6: instead of RU-103, I-107
should read RH-103, I-127, Lu-175
4. Re Igarasi's survey on Mo-99 (item 5), note that no such experiment was carried in Nucl. Phys. A270 (1976) 108. Only calculated cross-section using statistical parameter was given.
5. We sent the telex to Lucas Heights concerning Cd-isotopes (item 10). We are not sure if we will obtain these data because the same group has re-measured the capture cross-sections of Cd-111 and -113 with ORNL Linac. And this is compiled as EXFOR 30488.