23 June 1989

To: Distribution

From: H.D. Lemmel

Subject: Cf-252 spontaneous neutron spectra

On request by the INDC a special effort was to be made to compile in EXFOR the point data for time-of-flight measurements of the neutron spectrum from spontaneous fission of Cf-252.

The status of Exfor compilation of such data is summarized in the following pages.

Centers are asked to compile missing data with priority.

(Note: in cases where data exist in Exfor, it should be worth while to verify whether the data are up-to-date. Authors may have revised the data in the meantime.)

Clearance: J.J. Schmidt

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HDL/sa/3067N

Area 1

1USAANL: 1966 expt. exists in EXFOR 10612
          Poenitz expt. missing
          Guenther expt. missing

1USABET: data exist in EXFOR 10614

1USAUI: Johnson in EXFOR 12727

Area 2

2FRBRC: Fréhaut expt. not in EXFOR

2SWDFDA: Condé expt. not in EXFOR

2ZZZGEL: Knitter 1973 expt. in EXFOR 20401

2AUSIRK:) Böttger-Chalupka expt. not in EXFOR
2GERPTB:)

2GERKFK: Werle in EXFOR 20616

Area 3

Lab

3CPRAEP: Mean E exists in entries 30610 and 30667. (Duplication?)
          Pointwise spectrum data are not in EXFOR

3AULAUA: 1985 expt. exists in entry 30775. For 1978 expt. only Mean E
          exists in EXFOR 30619, no pointwise spectrum data.

3CPRBJG: New expt. 88 Mito not yet in Exfor

3HUNKFI: Jeki expt. 1972 in EXFOR 30099
          Lajtai expt. 1983 in EXFOR 40875
          Lajtai expt. 1986 not in EXFOR

3SAFSUN: Allie not in EXFOR

3INDTRM: Iyer not in EXFOR

3GDRTUD: Märten not in EXFOR

Area 4

4CCPFEI: Aleksandrova expt. exists in EXFOR 40250
            Kotchikova expt. exists in EXFOR 40472
            Dyachenko-Lajtai expt. exists in EXFOR 40875

            There seem to be additional experiments which are not in EXFOR.

4CCPNIR: Kroshkin: Mean E only in EXFOR 40064, spectrum missing
            Nefedov not in EXFOR
            Starostov in EXFOR 40644 and 40872
                    (blocking in CINDA is poor)
            Bojtsov in EXFOR 40874

4CCPRI: Blinov data in EXFOR 40418 and 40535
            Batenko not in EXFOR