(*Internet*) "NNDC@BNL.GOV

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Memo CP-C/291

DATE: July 24, 2001
TO: Distribution
FROM: V. McLane
SUBJECT: Differential neutron multiplicity

I have received two data sets that measure neutron multiplicity as a function of angle and secondary energy for which I need to introduce a new quantity and units.

Proposed dictionary additions follow.

Dictionary 25 (UNITS)
    P/MEVMUCSR   Particles/(MeV muC sr)

Dictionary 36 (Quantities)
    ,MLT/DA/DE,,TT   Diff. particle multiplicity d/dA/dE

I have attached a sample coded entry. Has anybody else encountered similar data?

Distribution:
  M. Chiba, Sapporo
  F. E. Chukreev, CAJaD
  S. Dunaeva, Sarov
  O. Gritzay, KINR
  K. Kato, JCPDG
  M. Kellett, NEADB
  V. N. Manokhin, CJD

  S. Maev, CJD
  O. Schwerer, NDS
  S. Takács, ATOMKI
  F. T. Tárkányi, ATOMKI
  V. Varlamov, CDFE
  Zhuang Youxiang, CNDC
  NNDC File

```
TRANS
ENTRY           C0825
SUBENT       C0825001
BIB
INSTITUTE  (1USAOHO)
REFERENCE  (J,NSE,129,175,1998)
AUTHOR     (T.N.Massey,S.Al-Quraishi,C.E.Brent,J.F.Guillemette,
            S.M.Grimes,D.Jacobs,J.E.O'Donnell,J.Oldendick,
            R.Wheeler)
TITLE      A Measurement of the 27Al(d,n) Spectrum for Use in
            Neutron Detector Calibration
FACILITY   (ACCEL,1USAOHO) Ohio tandem accelerator.
SAMPLE     Thick aluminum foils.
METHOD     (TOF)
DETECTOR   (FISCH) 235U thick and thin foils.
ANALYSIS   Results of measurements on 2 thick foils combined.
MONITOR    (92-U-235(N,F),,SIG) Data taken from ENDF/B-VI.
CORRECTION Corrected for background, and absorption on neutrons
            by aluminum of chamber, cadmium shield, and air.
ERR-ANALYS (ERR-S) Statistical uncertainty.
            Normalization uncertainty of 4.9% is the dominant
            source of uncertainty.
STATUS     Data received by email from T. Massey, 17 August 1999.
HISTORY    (20010731C) VM
ENDBIB
NOCOMMON
ENDSUBENT
SUBENT       C0825002
BIB
REACTION   (13-AL-27(D,X)0-NN-1,,MLT/DA/DE,,TT)
ENDBIB
COMMON
EN         ANG
MEV        ADEG
  7.44     120.
ENDCOMMON
DATA
E          DATA       ERR-S
MEV        P/MEVMUCSR P/MEVMUCSR
   0.2200   3.5395E+07 6.0147E+06
   0.2700   4.1417E+07 5.4801E+06
   0.3200   5.6495E+07 5.1177E+06
…
  13.7094   1.9483E+05 5.8838E+04
ENDDATA
ENDSUBENT
ENDENTRY
```