

# Japan Charged-Particle Nuclear Reaction Data Group

Division of Physics, Graduate School of Science  
Hokkaido University  
060-0810 Sapporo, JAPAN

E-mail: nrdf@jcprg.org  
Internet: <http://www.jcprg.org/>

Telephone +81(JPN)-11-706-2684  
Facsimile +81(JPN)-11-706-4850

## Memo CP-E/059

**Date:** December 8, 2004  
**To:** Distribution  
**From:** OTSUKA Naohiko  
**Subject:** Addition to Dictionary 36 (Quantities)

We propose the following quantity codes:

### Dictionary 36 (Quantities)

PAR/CHN, FY      FY      Total chain yield of fission products for given excitation energy  
PAR, AP, HF      NO      Most probable mass of heavy fragment for given excitation energy

Quantity	Reaction Type	Dimension	Reference	Subentry
PAR/CHN, FY	FYP	FY	K. Nishio <i>et al.</i> , Phys. Rev. C	E1813.002-003
PAR, AP, HF	ZPP	NO	<b>67</b> (2003)014604	E1813.004

### **Distribution:**

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**Sample of coded entry (E1813.003-004)**

K. Nishio *et al.*, Phys. Rev. C67 (2003) 014604 Fig. 4

```
SUBENT      E1813003   20041016      E181300300001
BIB          4         7      E181300300002
REACTION    (94-PU-239(D,P+F)MASS,PAR/CHN,FY) E181300300003
            The yield is normalized such that the sum of the E181300300004
            yields becomes 200%. E181300300005
EN-SEC      (E-EXC,94-PU-240) E181300300006
ERR-ANALYS (ERR-S) Statistical error E181300300007
STATUS      (TABLE) Data (Fig. 4(B), p.014604-4 in reference) E181300300008
            received by e-mail from K.Nishio (2003.8.11) E181300300009
ENDBIB      7         0      E181300300010
COMMON      2         3      E181300300011
E-EXC-MIN   E-EXC-MAX E181300300012
MEV         MEV      E181300300013
4.78       5.30     E181300300014
ENDCOMMON   3         0      E181300300015
DATA        5        11     E181300300016
MASS-MIN    MASS-MAX   DATA   +ERR-S   -ERR-S   E181300300017
NO-DIM      NO-DIM    PC/FIS  PC/FIS   PC/FIS   E181300300018
1.195E+02   1.245E+02  2.597E-01 2.598E-01 2.597E-01 E181300300019
1.245E+02   1.295E+02  1.558E+00 6.370E-01 6.358E-01 E181300300020
1.295E+02   1.345E+02  2.727E+00 8.420E-01 8.410E-01 E181300300021
1.345E+02   1.395E+02  6.753E+00 1.325E+00 1.324E+00 E181300300022
1.395E+02   1.445E+02  3.896E+00 1.006E+00 1.006E+00 E181300300023
1.445E+02   1.495E+02  2.597E+00 8.220E-01 8.210E-01 E181300300024
1.495E+02   1.545E+02  1.429E+00 6.090E-01 6.096E-01 E181300300025
1.545E+02   1.595E+02  5.195E-01 3.673E-01 3.673E-01 E181300300026
1.595E+02   1.645E+02  1.299E-01 1.836E-01 1.837E-01 E181300300027
1.645E+02   1.695E+02  1.299E-01 1.836E-01 1.837E-01 E181300300028
1.695E+02   1.745E+02  0.000E+00 0.000E+00 0.000E+00 E181300300029
ENDDATA     13         0      E181300300030
ENDSUBENT   29         0      E181300399999
SUBENT      E1813004   20041016      E181300400001
BIB          4         7      E181300400002
REACTION    (94-PU-239(D,P+F),PAR,AP,HF) E181300400003
            The average value of the heavy fragment mass (atomic E181300400004
            mass unit) E181300400005
EN-SEC      (E-EXC,94-PU-240) E181300400006
ERR-ANALYS (DATA-ERR) No information on source of uncertainties E181300400007
STATUS      (TABLE) Data tabulated from captions in Fig. 4(A) and E181300400008
            (B), p.014604-4 in reference E181300400009
ENDBIB      7         0      E181300400010
NOCOMMON    0         0      E181300400011
DATA        4         2      E181300400012
E-EXC-MIN   E-EXC-MAX   DATA   DATA-ERR E181300400013
MEV         MEV      NO-DIM   NO-DIM    E181300400014
5.3         6.         139.8   1.1      E181300400015
4.78       5.3        140.2   2.5      E181300400016
ENDDATA     4         0      E181300400017
ENDSUBENT   16         0      E181300499999
```