

# Japan Charged-Particle Nuclear Reaction Data Group

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## Memo CP-E/058

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

We propose the following quantity codes:

### Dictionary 36 (Quantities)

, DA/DE , , TST	DAE	Total spin transfer * d/dA/dE
LL , DA/DE , , SF	DAE	Spin-flip probability S(LL)*d/dA/dE
SS , DA/DE , , SF	DAE	Spin-flip probability S(SS)*d/dA/dE
PAR , POL/DA , , TST	NO	Partial total spin transfer with respect to angle

Quantity	Reaction Type	Dimension	Reference	Subentry
, DA/DE , , TST	DAE	DAE	A. Tamii <i>et al.</i> , Phys. Lett., <b>B459</b> (1999)61	E1807.003
LL , DA/DE , , SF SS , DA/DE , , SF	DAE	DAE		E1807.004
PAR , POL/DA , , TST	PPD	NO		E1807.007

### **Distribution:**

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### Sample of coded entry (E1807.003-004, 007)

A. Tamii *et al.*, Phys. Lett. **B459** (1999) 61 Fig. 2 and Table 1

```
SUBENT      E1807003   20041105                E180700300001
BIB          4         7                    E180700300002
REACTION    (6-C-12(P,INL)6-C-12,,DA/DE,,TST) E180700300003
            Double differential cross section multiplied by total E180700300004
            spin transfer                                     E180700300005
...
ENDBIB      7         0                    E180700300010
NOCOMMON    0         0                    E180700300011
DATA        3         126                  E180700300012
E-EXC       DATA     ERR-S                E180700300013
MEV         MB/SR/MEV  MB/SR/MEV          E180700300014
            7.500E+00  5.840E-03  3.164E-03      E180700300015
...
ENDDATA     128        0                    E180700300141
ENDSUBENT   140        0                    E180700399999
SUBENT      E1807004   20041105                E180700400001
BIB          4         9                    E180700400002
REACTION    ((6-C-12(P,INL)6-C-12,LL,DA/DE,,SF)- E180700400003
            (6-C-12(P,INL)6-C-12,SS,DA/DE,,SF)) E180700400004
            Double differential cross section multiplied by E180700400005
            (longitudinal spin-flip probability S(L'L)-transverse E180700400006
            spin-flip probability S(S'S)) E180700400007
...
ENDBIB      9         0                    E180700400012
NOCOMMON    0         0                    E180700400013
DATA        3         126                  E180700400014
E-EXC       DATA     ERR-S                E180700400015
MEV         MB/SR/MEV  MB/SR/MEV          E180700400016
            7.500E+00  -5.875E-03  5.680E-03      E180700400017
...
ENDDATA     128        0                    E180700400143
ENDSUBENT   142        0                    E180700499999
SUBENT      E1807007   20041105                E180700700001
BIB          7         10                   E180700700002
REACTION    (6-C-12(P,INL)6-C-12,PAR,POL/DA,,TST) E180700700003
LEVEL-PROP  ((1.) 6-C-12,E-LVL=7.65,SPIN=0,PARITY=+1.) E180700700006
...
ENDBIB      10        0                    E180700700013
NOCOMMON    0         0                    E180700700014
DATA        5         3                    E180700700015
E-LVL       LVL-FLAG  DATA     ERR-S     MISC          E180700700016
MEV         NO-DIM    NO-DIM    NO-DIM    NO-DIM        E180700700017
            7.65      1.        -0.02     0.04     0.            E180700700018
            12.7     2.        0.88     0.04     0.            E180700700019
            15.1     3.        0.99     0.01     1.            E180700700020
ENDDATA     5         0                    E180700700021
ENDSUBENT   20        0                    E180700799999
```