

*Nuclear Structure and Reaction Data Center*

**MEMO CP-A/98**

Date: 17 November 1999  
To: Distribution  
From: F.E. Chukreev, S.Babykina  
Subject: Dictionary additions

Please, make the following dictionary updates.

**ADD to Dictionary 27 -**

***1. Allow in reaction SF4***

11-NA-30  
11-NA-31  
11-NA-32  
11-NA-33  
11-NA-34  
19-K-47  
19-K-49  
19-K-50  
19-K-51  
19-K-52  
19-K-53  
39-Y-103  
41-NB-108  
41-NB-109  
41-NB-110  
81-TL-184  
81-TL-185  
81-TL-186  
81-TL-187  
81-TL-188  
81-TL-190  
87-FR-202  
87-FR-211  
87-FR-212  
87-FR-213  
87-FR-219  
87-FR-220  
87-FR-221

87-FR-222  
87-FR-224  
87-FR-225  
87-FR-226  
87-FR-227  
87-FR-228  
87-FR-229  
87-FR-230

**Add in isomer field number '1' for following nuclides:**

39-Y-100  
39-Y-102

**Add to dictionary 36 (Quantities)**

**IND/UND,PY** (Independent product yield, undefined reaction)  
(Independent product yield for direct formation of product nucleus  
without defined reaction channel, outgoing particles represent only  
sum of emitted nucleons.)  
Formation via radioactive decay explicitly excluded.  
===Not to be used with process codes 'X','F'

**,POL/DA/DE** (Spin-polarization probability  $d^2/dA/dE$ )  
(Differential spin-polarization probability with respect to angle of  
emission and energy of outgoing particles)

**References for quantities to be entered into Dictionary 36.**

Quantity	Reference
IND/UND,PY	ARI,43,1323,(1992)
POL,DA/DE	EPJ/A,2,411,(1998)

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