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Memo CP-D/499

Date: 17 March 2008
To: Distribution
From: N. Otsuka, S.Dunaeva
Subject: Addition to Dictionary 24 (Data Headings)

We propose the following new data headings in order to compile partial cross sections of heavy-ion induced reactions in which ranges of excitation level energies are specified for two nuclides in the final state [1]. A coding sample with these codes is shown in Example.

Dictionary 37 (Result codes)

E-LVL1-MIN	Lower limit of 1st level energy
E-LVL1-MAX	Upper limit of 1st level energy
E-LVL2-MIN	Lower limit of 2nd level energy
E-LVL2-MAX	Upper limit of 2nd level energy

Reference:

[1] J. J. S. Alves *et al.*, Nucl. Phys. **A748**(2005)59. (EXFOR D0276)

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Example (D0276.013 in PRELIM.D059)

SUBENT	D0276013	20060609			D027601300001
BIB	3	5			D027601300002
REACTION	(28-NI-58(8-O-18,8-O-17)28-NI-59,PAR,DA) (on fig. 12)				D027601300003
EN-SEC	(E-LVL1,8-O-17)				D027601300004
	(E-LVL2-MIN,28-NI-59)				D027601300005
	(E-LVL2-MAX,28-NI-59)				D027601300006
ERR-ANALYS	(DATA-ERR) Nothing said about uncertainties				D027601300007
ENDBIB	5	0			D027601300008
COMMON	4	3			D027601300009
E-LVL1	E-LVL1	E-LVL2-MIN	E-LVL2-MAX		D027601300010
MEV	MEV	MEV	MEV		D027601300011
0.0	0.87	0.34	1.19		D027601300012
ENDCOMMON	3	0			D027601300013
DATA	3	7			D027601300014
ANG-CM	DATA-CM	DATA-ERR			D027601300015
ADEG	MB/SR	MB/SR			D027601300016
81.380	6.0616	1.2313			D027601300017
92.414	4.1094	0.44004			D027601300018
112.83	0.79418	0.26041			D027601300019
122.40	0.19987	0.13116			D027601300020
139.47	0.36808	0.97100E-01			D027601300021
147.56	0.24539	0.62721E-01			D027601300022
162.42	0.16945	0.61875E-01			D027601300023
ENDDATA	9	0			D027601300024
ENDSUBENT	23	0			D027601399999