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Memo CP-D/540

Date: 20 December 2008
To: Distribution
From: N. Otsuka, S. Dunaeva

Subject: Duplication in some rhodium-103 activation cross sections

The following duplicated pairs found by B. Kiraly (ATOMKI) were analyzed at NDS.

#	Reference	Lab	Entry 1	Entry2
1	J,NIM/B,170,281,2000	2BLGVUB	D4108 (2003-04)	O0843 (2000-12)
2	J,PR,115,925,1959	1USALRL	B0093 (1978-04)	T0130 (2000-11)
3	J,ARI,56,821,2002	2GERJUL	D4125 (2003-07)	O1010 (2002-10)
4	J,JIN,43,2227,1981	2UK MAN	A0327 (1986-09)	O1214 (2004-11)
5	J,RRL,43,265,1980	3ARGCND	D0042 (1983-03)	O1248 (2005-02)

Solution for each duplication pair is proposed below:

Pts: Total number of data points

Same?: "No" means disagreement of data sets in two data sets.)

Remark: Items should be checked and/or corrected for adopted entries.

Centres responsible to kept entries will should analyze them and make appropriate corrections if necessary. For 3 pairs (D4108/O0843, A0327/O1214 and D0042/O1248), final decision should be made by two centres.

1. D4108/O0843

Proposal: Keep D4108 and delete O0843

(TTY is compiled only in D4108.)

Numerical data of D4108 are slightly different from those of O0843.

SF1	SF4	Pts	Quant	D4108	O0843	Same?	Remark on D4108
Rh-103	Pd-101	9	CS	003	004	Yes	SF3 should be 3N
Rh-103	Pd-103	70	CS	002.1	002	No	
Rh-103	Pd-103	42	CS	002.2	003	No	
Rh-103	Pd-103	34	TTY	006	***	***	
Rh-103	Rh-101-g	29	CS	004.2	006	No	SF5 should be IND?
Rh-103	Rh-101-g	31	CS	005.2	008	No	SF4 should be Rh-102-g SF5 should be IND?
Rh-103	Rh-101-m	19	CS	004.1	005	No	SF5 should be IND?
Rh-103	Rh-101-m	31	CS	005.1	***	No	SF4 should be Rh-102-m. SF5 should be IND?
	Rh-102-m			***	007		

2. B0093/T0130

CAJaD deleted B0093 in TRANS.B021.

(US data, T0130 is translated from B0093)

3. D4125/O1010

NDS will delete D4125.

SF1	SF4	Pts	Quant.	D4125	O1010	Same?	Remark on O1010
Rh-103	Pd-101	9	CS	003.1	003	Yes	
Rh-103	Pd-100	5	CS	003.2	004	Yes	
Rh-103	Pd-103	26	CS	002	002	Yes	
Rh-103	Pd-103	74	CS	004.1	005	Yes	
Rh-103	Pd-103	71	TTY	004.2	005	Yes	

4. A0327/O1214

Proposal: Keep A0327 and delete O1214.

(Some CSs are compiled in A0327 only.)

A0327.001: REFERENCE: INC should be JIN.

A0327.005: 660.7 mb should be 666.7 mb @ 58.62 MeV.

SF1	SF4	Pts	Quant	A0327	O1214	Same?	Remark on A0327
Rh-103	Ag-105	11	CS	003	***	Yes	
	Ag-105-g			***	003		
Rh-103	Ag-104	13	CS	004.F	***	***	
Rh-103	Ag-104-g	13	CS	004.1	004.1	Yes	
Rh-103	Ag-104-g/m	13	CS	004.V	004.3	Yes	
Rh-103	Ag-104-m	13	CS	004.2	004.2	Yes	
Rh-103	Ag-103	9	CS	005	***	No (at 1pt)	SF4 should be -G ? SF5 should be M+?
	Ag-103-g			***	005		
Rh-103	Ag-102	5	CS	006.L	***	***	
Rh-103	Ag-102-g	5	CS	006.1	006.1	Yes	
Rh-103	Ag-102-g/m	4	CS	006.N	006.3	Yes	
Rh-103	Ag-102-m	4	CS	006.2	006.2	Yes	
Rh-103	Ag-106	5	CS	002.S	***	***	
Rh-103	Ag-106-g	5	CS	002.2	002.1	Yes	
Rh-103	Ag-106-m	5	CS	002.1	002.2	Yes	
Rh-103	Ag-106-m/g	5	CS	002.R	002.3	Yes	

5. D0042/O1248

Proposal: Keep D0042 and delete O1248.

(Some CS and TTY are compiled in D0042 only.)

SF1	SF4	Pts	Quant	D0042	O1248	Same?	Remark on D0042
Rh-103	Ag-105-g	14	CS	002.2	003	No	
Rh-103	Ag-105-g	20	CS	004.1	***	***	
Rh-103	Ag-105-g	20	TTY	004.2	***	***	
Rh-103	Ag-104-g	9	CS	003.1	004	Yes	
Rh-103	Rh-100	9	CS	006.1	***	Yes	
	Rh-100-g			***	006		
Rh-103	Ag-103	6	CS	***	005	Yes	
	Ag-103-g			003.2	***		
Rh-103	Rh-99-m	5	CS	006.2	007	Yes	SF5 should be IND?
Rh-103	Ag-106-m	14	CS	002.1	002	Yes	
Rh-103	Ag-106-m	24	CS	005.1	***	***	
Rh-103	Ag-106-m	24	TTY	005.2	***	***	

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