

**Nuclear Data Section
International Atomic Energy Agency
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Memo CP-D/654

Date: 19 July 2010

To: Distribution

From: N. Otsuka

Subject: **Isomeric sums coded with SIG/SUM**

Reference: Memo 4C-4/175 (Rev.)

As a response to the Action 55 of the NRDC2010 meeting, I prepared a list of subentries where isomeric sums are coded with SIG/SUM in REACTION. The following corrections are necessary:

- 1) Deletion of the isomeric flag in SF4 (except for 20536.024)
- 2) Deletion of /SUM in SF6

Subentry	REACTION
20536.021	(77-IR-191(N,2N)77-IR-190-G+M,,SIG/SUM)
20536.024	((77-IR-191(N,2N)77-IR-190-M2,,SIG)/ (77-IR-191(N,2N)77-IR-190-G+M2,,SIG/SUM))
20619.008	(28-NI-58(N,P)27-CO-58-G+M,,SIG/SUM,,FIS)
20630.002	(54-XE-126(N,G)54-XE-127-G+M,,SIG/SUM,,MXW)
20734.002	(12-MG-24(N,P)11-NA-24-G+M,,SIG/SUM,,FIS)
20734.003	(22-TI-46(N,P)21-SC-46-G+M,,SIG/SUM,,FIS)
20734.007	(28-NI-58(N,P)27-CO-58-G+M,,SIG/SUM,,FIS)
20767.002	((94-PU-240(N,G)94-PU-241-G+M,,SIG/SUM)/ (79-AU-197(N,G)79-AU-198-G+M,,SIG/SUM))
20767.003	((94-PU-242(N,G)94-PU-243-G+M,,SIG/SUM)/ (79-AU-197(N,G)79-AU-198-G+M,,SIG/SUM))
20774.002	((95-AM-241(N,G)95-AM-242-G+M,,SIG/SUM)/ (79-AU-197(N,G)79-AU-198-G+M,,SIG/SUM))
20774.004	((95-AM-241(N,G)95-AM-242-G+M,,SIG/SUM)/ (79-AU-197(N,G)79-AU-198-G+M,,SIG/SUM))
20774.006	((95-AM-241(N,G)95-AM-242-G+M,,SIG/SUM)/ (79-AU-197(N,G)79-AU-198-G+M,,SIG/SUM))
20774.008	((95-AM-241(N,G)95-AM-242-G+M,,SIG/SUM)/ (79-AU-197(N,G)79-AU-198-G+M,,SIG/SUM))
20774.010	((95-AM-241(N,G)95-AM-242-G+M,,SIG/SUM)/ (79-AU-197(N,G)79-AU-198-G+M,,SIG/SUM))
21009.028	(41-NB-93(N,HE3)39-Y-91-M+G,,SIG/SUM,,SPA)
21009.030	(41-NB-93(N,A)39-Y-90-M+G,,SIG/SUM,,SPA)
21270.002	((55-CS-133(N,A)53-I-130-G+M,,SIG/SUM)+ (53-I-127(N,A)51-SB-124-G+M,,SIG/SUM))
21270.004	((55-CS-133(N,P)54-XE-133-G+M,,SIG/SUM)+ (53-I-127(N,P)52-TE-127-G+M,,SIG/SUM))
21351.004	(46-PD-108(N,G)46-PD-109-G+M,,SIG/SUM,,MXW)
21351.005	(49-IN-115(N,G)49-IN-116-G+M,,SIG/SUM,,MXW)
21359.002	((66-DY-164(N,G)66-DY-165-G+M,,SIG/SUM,,MXW)/ (66-DY-164(N,G)66-DY-165-M,,SIG,,MXW))
21403.003	(37-RB-85(N,G)37-RB-86-G+M,,SIG/SUM,,MXW)

21410.002	((94-PU-240(N,G)94-PU-241-G+M,,SIG/SUM,,MXW)- (94-PU-242(N,G)94-PU-243-G+M,,SIG/SUM,,MXW))
21410.003	(94-PU-240(N,G)94-PU-241-G+M,,SIG/SUM,,MXW)
21410.004	((94-PU-239(N,ABS),,SIG,,MXW)- (94-PU-242(N,G)94-PU-243-G+M,,SIG/SUM,,MXW))
21410.006	(94-PU-239(N,G)94-PU-240-G+M,,SIG/SUM,,MXW)
21410.010	(94-PU-241(N,G)94-PU-242-G+M,,SIG/SUM,,MXW)
21410.012	(94-PU-240(N,G)94-PU-241-G+M,,SIG/SUM)
21469.004	((47-AG-0(N,G),,SIG,,MXW)/ (79-AU-197(N,G)79-AU-198-G+M,,SIG/SUM,,MXW))
21469.007	(45-RH-103(N,G)45-RH-104-G+M,,SIG/SUM,,MXW)
21469.008	(55-CS-133(N,G)55-CS-134-G+M,,SIG/SUM,,MXW)
21469.010	(59-PR-141(N,G)59-PR-142-G+M,,SIG/SUM,,MXW)
21502.002	(22-TI-46(N,P)21-SC-46-G+M,,SIG/SUM,,FIS)
21502.003	(29-CU-63(N,A)27-CO-60-G+M,,SIG/SUM,,FIS)
21508.002	(22-TI-46(N,P)21-SC-46-G+M,,SIG/SUM,,FIS)
21613.005	(40-ZR-90(N,2N)40-ZR-89-G+M,,SIG/SUM,,FIS)
21613.006	(81-TL-203(N,2N)81-TL-202-G+M,,SIG/SUM,,FIS)
21627.009	(79-AU-197(N,G)79-AU-198-G+M,,SIG/SUM)
21634.002	((28-NI-58(N,2N)28-NI-57,,SIG)/ (28-NI-58(N,P)27-CO-58-G+M,,SIG/SUM))
21634.003	((28-NI-60(N,P)27-CO-60-G+M,,SIG/SUM)/ (28-NI-58(N,P)27-CO-58-G,,SIG))
21634.004	((28-NI-62(N,A)26-FE-59,,SIG)/ (28-NI-58(N,P)27-CO-58-G+M,,SIG/SUM))
21648.004	(28-NI-60(N,P)27-CO-60-G+M,,SIG/SUM,,FIS)
21668.006	((55-CS-133(N,P)54-XE-133-G+M,,SIG/SUM)+ (53-I-127(N,P)52-TE-127-G+M,,SIG/SUM))
21690.002	((95-AM-241(N,G)95-AM-242-G,,SIG)/ (79-AU-197(N,G)79-AU-198-G+M,,SIG/SUM))
21690.005	((95-AM-241(N,G)95-AM-242-G,,SIG)/ (79-AU-197(N,G)79-AU-198-G+M,,SIG/SUM))
21698.002	((92-U-238(N,G)92-U-239,,SIG,,AV)/ (79-AU-197(N,G)79-AU-198-G+M,,SIG/SUM,,AV))
21721.002	(22-TI-46(N,P)21-SC-46-G+M,,SIG/SUM,,FIS)
21737.011	(71-LU-175(N,G)71-LU-176-G+M,,SIG/SUM,,MXW)
21816.010	(95-AM-241(N,G)95-AM-242-G+M,,SIG/SUM,,SPA)
21816.013	(95-AM-243(N,G)95-AM-244-G+M,,SIG/SUM,,SPA)
21816.018	(46-PD-106(N,G)46-PD-107-G+M,,SIG/SUM,,SPA)
21816.019	(55-CS-133(N,G)55-CS-134-G+M,,SIG/SUM,,SPA)
21816.021	(59-PR-141(N,G)59-PR-142-G+M,,SIG/SUM,,SPA)
21817.008	(27-CO-59(N,2N)27-CO-58-G+M,,SIG/SUM,,FIS)
21817.013	(40-ZR-90(N,2N)40-ZR-89-G+M,,SIG/SUM,,FIS)
A0135.002.2	(48-CD-111(P,N)49-IN-111-G+M,,SIG/SUM,,,EXP)
A0250.002.C	(40-ZR-90(P,N)41-NB-90-M+G,,SIG/SUM,,,EXP)

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