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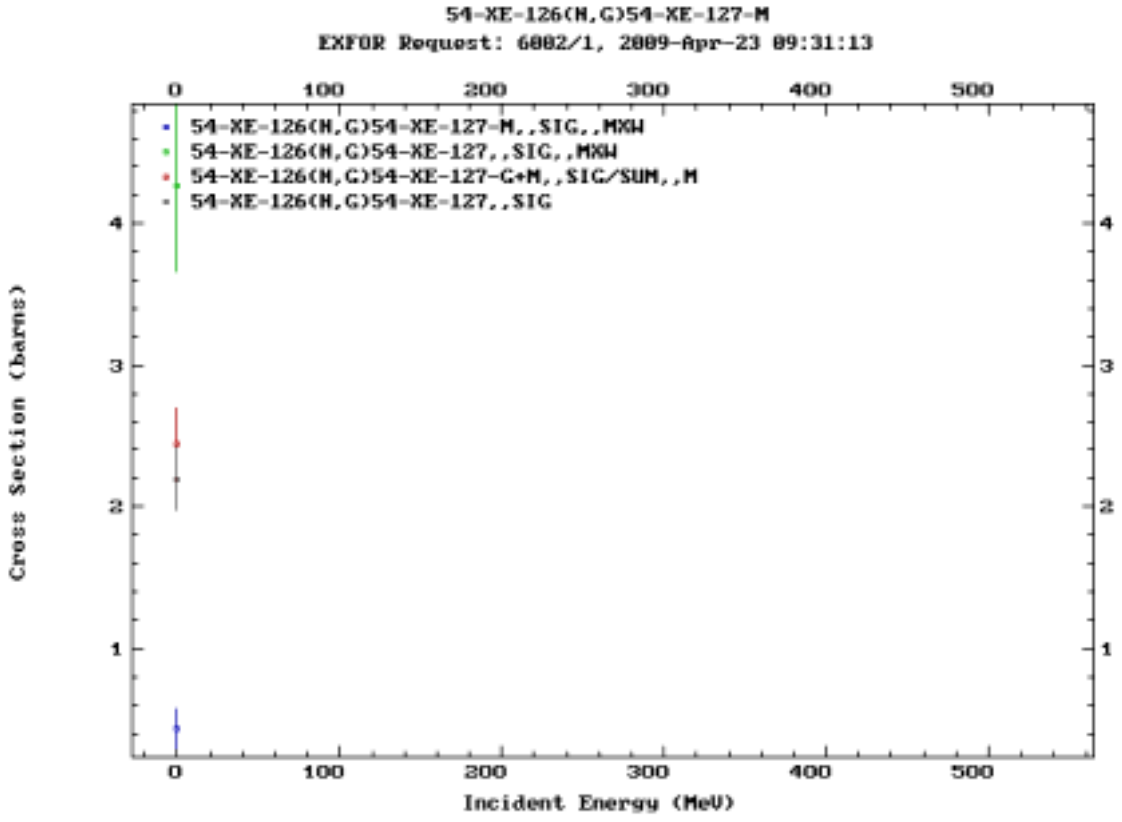
MEMO CP-4/175rev

DATE:	22 May 2009
TO:	Distribution
From:	M.Mikhaylyukova
Subject:	SIG/SUM correction for NRDC2009 discussion

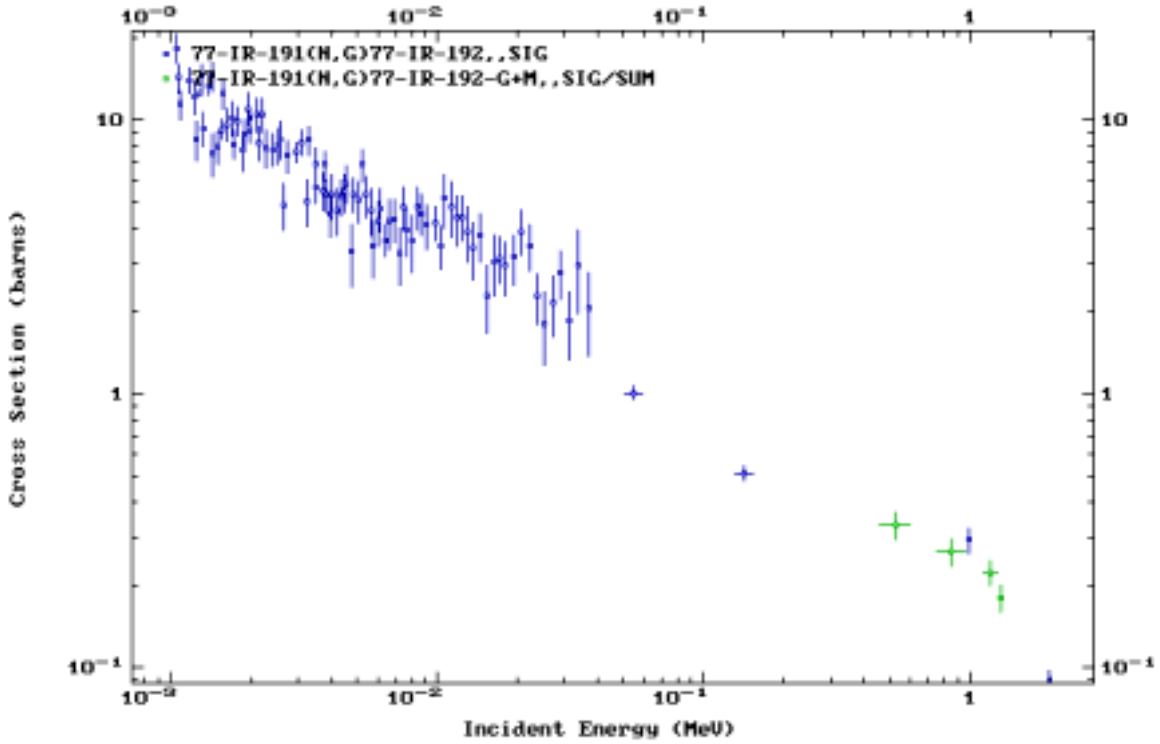
In EXFOR data base there are Subents with obsolete code SIG/SUM .
It's proposed to correct these Subents according to the nowadays rules.
This code SIG/SUM is not mistake, but now when somebody select data for cross sections, these reaction (SIG/SUM) appears in the separate line, but not together with other data of the same reaction.

To select data and to make plots automatically, it would be better for users, if these data could appear as the same reaction coding group.

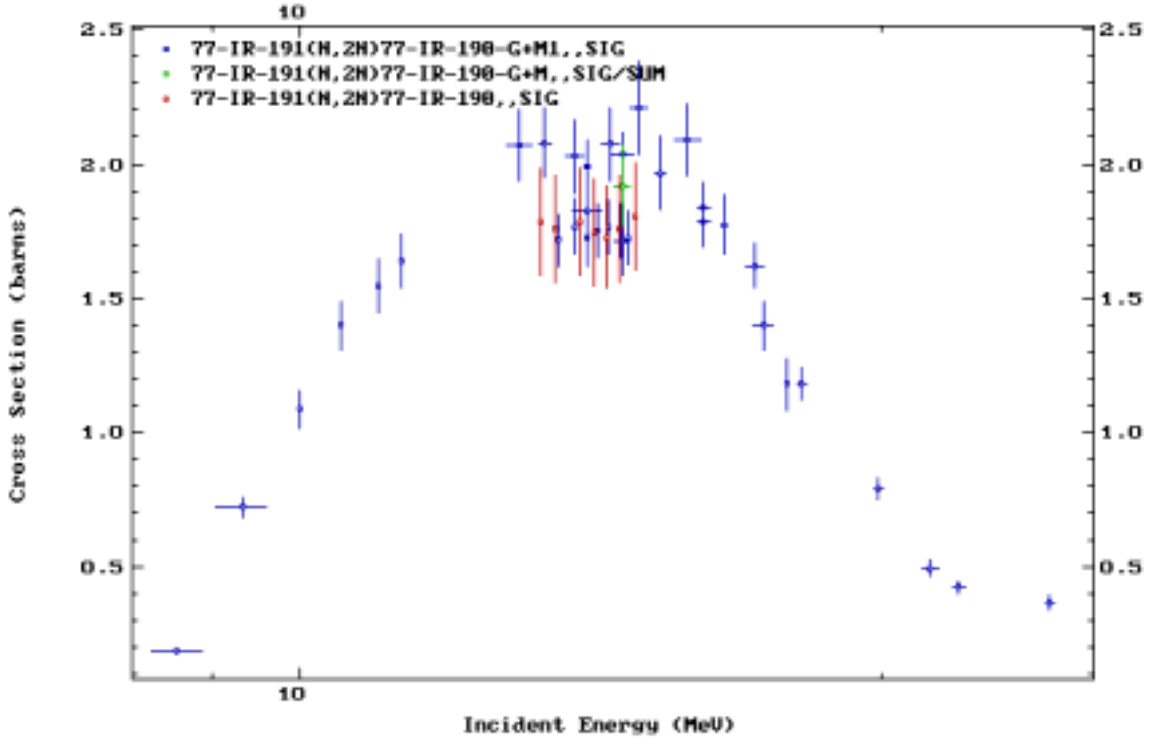
One example is given on Figure made by QuickPlot:



77-IR-191(N,G)77-IR-192
EXFOR Request: 1507/1, 2009-May-14 14:29:53



77-IR-191(N,2N)77-IR-190-G+M1
EXFOR Request: 1509/1, 2009-May-14 14:37:34



List of Subents with code SIG/SUM (TOTAL: 78 reactions, 36 Entries) :

11407020 REACTION (49-IN-115(N,G)49-IN-116-M1+M2,,SIG/SUM)
11429018 REACTION (49-IN-115(N,G)49-IN-116-M1+M2,,SIG/SUM)
11675014 REACTION (49-IN-115(N,G)49-IN-116-M1+M2,,SIG/SUM)
11945006 REACTION (49-IN-115(N,G)49-IN-116-M1+M2,,SIG/SUM)
11945007 REACTION (49-IN-115(N,G)49-IN-116-M1+M2,,SIG/SUM,,MXW)
12866098 REACTION (49-IN-115(N,G)49-IN-116-M1+M2,,SIG/SUM,,SPA)
20536021 REACTION (77-IR-191(N,2N)77-IR-190-G+M,,SIG/SUM) TOTAL SIG.
20536024 REACTION ((77-IR-191(N,2N)77-IR-190-M2,,SIG)/
(77-IR-191(N,2N)77-IR-190-G+M2,,SIG/SUM)) M2 TO GS.
20619008 REACTION (28-NI-58(N,P)27-CO-58-G+M,,SIG/SUM,,FIS) CF252 AVG.
20630002 REACTION (54-XE-126(N,G)54-XE-127-G+M,,SIG/SUM,,MXW)
20734002 REACTION (12-MG-24(N,P)11-NA-24-G+M,,SIG/SUM,,FIS)
20734003 REACTION (22-TI-46(N,P)21-SC-46-G+M,,SIG/SUM,,FIS)
20734007 REACTION (28-NI-58(N,P)27-CO-58-G+M,,SIG/SUM,,FIS)
20767002 REACTION ((94-PU-240(N,G)94-PU-241-G+M,,SIG/SUM)/
(79-AU-197(N,G)79-AU-198-G+M,,SIG/SUM))
20767003 REACTION ((94-PU-242(N,G)94-PU-243-G+M,,SIG/SUM)/
(79-AU-197(N,G)79-AU-198-G+M,,SIG/SUM))
20774002 REACTION ((95-AM-241(N,G)95-AM-242-G+M,,SIG/SUM)/
(79-AU-197(N,G)79-AU-198-G+M,,SIG/SUM))
20774004 REACTION ((95-AM-241(N,G)95-AM-242-G+M,,SIG/SUM)/
(79-AU-197(N,G)79-AU-198-G+M,,SIG/SUM))
20774006 REACTION ((95-AM-241(N,G)95-AM-242-G+M,,SIG/SUM)/
(79-AU-197(N,G)79-AU-198-G+M,,SIG/SUM))
20774008 REACTION ((95-AM-241(N,G)95-AM-242-G+M,,SIG/SUM)/
(79-AU-197(N,G)79-AU-198-G+M,,SIG/SUM))
20774010 REACTION ((95-AM-241(N,G)95-AM-242-G+M,,SIG/SUM)/
(79-AU-197(N,G)79-AU-198-G+M,,SIG/SUM))
21009028 REACTION (41-NB-93(N,HE3)39-Y-91-M+G,,SIG/SUM,,SPA)
21009030 REACTION (41-NB-93(N,A)39-Y-90-M+G,,SIG/SUM,,SPA)
21270002 REACTION ((55-CS-133(N,A)53-I-130-G+M,,SIG/SUM)+
(53-I-127(N,A)51-SB-124-G+M,,SIG/SUM))
21270004 REACTION ((55-CS-133(N,P)54-XE-133-G+M,,SIG/SUM)+
(53-I-127(N,P)52-TE-127-G+M,,SIG/SUM))
21351004 REACTION (46-PD-108(N,G)46-PD-109-G+M,,SIG/SUM,,MXW)
21351005 REACTION (49-IN-115(N,G)49-IN-116-G+M,,SIG/SUM,,MXW)
21359002 REACTION ((66-DY-164(N,G)66-DY-165-G+M,,SIG/SUM,,MXW)/
(66-DY-164(N,G)66-DY-165-M,,SIG,,MXW))
21403003 REACTION (37-RB-85(N,G)37-RB-86-G+M,,SIG/SUM,,MXW) TOTAL CROSS
SECTION TO GS AND MS.
21410002 REACTION ((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))
21410003 REACTION (94-PU-240(N,G)94-PU-241-G+M,,SIG/SUM,,MXW)
21410004 REACTION ((94-PU-239(N,ABS),,SIG,,MXW)-
(94-PU-242(N,G)94-PU-243-G+M,,SIG/SUM,,MXW))
21410006 REACTION (94-PU-239(N,G)94-PU-240-G+M,,SIG/SUM,,MXW)
21410010 REACTION (94-PU-241(N,G)94-PU-242-G+M,,SIG/SUM,,MXW)
21410012 REACTION (94-PU-240(N,G)94-PU-241-G+M,,SIG/SUM)
21469004 REACTION ((47-AG-0(N,G),,SIG,,MXW)/
(79-AU-197(N,G)79-AU-198-G+M,,SIG/SUM,,MXW))
21469007 REACTION (45-RH-103(N,G)45-RH-104-G+M,,SIG/SUM,,MXW)
21469008 REACTION (55-CS-133(N,G)55-CS-134-G+M,,SIG/SUM,,MXW)
21469010 REACTION (59-PR-141(N,G)59-PR-142-G+M,,SIG/SUM,,MXW)
21502002 REACTION (22-TI-46(N,P)21-SC-46-G+M,,SIG/SUM,,FIS)

21502003 REACTION (29-CU-63(N,A)27-CO-60-G+M,,SIG/SUM,,FIS)
21508002 REACTION (22-TI-46(N,P)21-SC-46-G+M,,SIG/SUM,,FIS)
21613005 REACTION (40-ZR-90(N,2N)40-ZR-89-G+M,,SIG/SUM,,FIS)
21613006 REACTION (81-TL-203(N,2N)81-TL-202-G+M,,SIG/SUM,,FIS)
21627009 REACTION (79-AU-197(N,G)79-AU-198-G+M,,SIG/SUM)
21634002 REACTION ((28-NI-58(N,2N)28-NI-57,,SIG)/
(28-NI-58(N,P)27-CO-58-G+M,,SIG/SUM))
21634003 REACTION ((28-NI-60(N,P)27-CO-60-G+M,,SIG/SUM)/
(28-NI-58(N,P)27-CO-58-G,,SIG))
21634004 REACTION ((28-NI-62(N,A)26-FE-59,,SIG)/
(28-NI-58(N,P)27-CO-58-G+M,,SIG/SUM))
21648004 REACTION (28-NI-60(N,P)27-CO-60-G+M,,SIG/SUM,,FIS)
21668006 REACTION ((55-CS-133(N,P)54-XE-133-G+M,,SIG/SUM)+
(53-I-127(N,P)52-TE-127-G+M,,SIG/SUM)) SUM CROSS SECTIO
21690002 REACTION ((95-AM-241(N,G)95-AM-242-G,,SIG)/
(79-AU-197(N,G)79-AU-198-G+M,,SIG/SUM))
21690005 REACTION ((95-AM-241(N,G)95-AM-242-G,,SIG)/
(79-AU-197(N,G)79-AU-198-G+M,,SIG/SUM))
21698002 REACTION ((92-U-238(N,G)92-U-239,,SIG,,AV)/
(79-AU-197(N,G)79-AU-198-G+M,,SIG/SUM,,AV))
21721002 REACTION (22-TI-46(N,P)21-SC-46-G+M,,SIG/SUM,,FIS) FISSION AVERA
21737011 REACTION (71-LU-175(N,G)71-LU-176-G+M,,SIG/SUM,,MXW)
21816010 REACTION (95-AM-241(N,G)95-AM-242-G+M,,SIG/SUM,,SPA)
21816013 REACTION (95-AM-243(N,G)95-AM-244-G+M,,SIG/SUM,,SPA)
21816018 REACTION (46-PD-106(N,G)46-PD-107-G+M,,SIG/SUM,,SPA)
21816019 REACTION (55-CS-133(N,G)55-CS-134-G+M,,SIG/SUM,,SPA)
21816021 REACTION (59-PR-141(N,G)59-PR-142-G+M,,SIG/SUM,,SPA)
21817008 REACTION (27-CO-59(N,2N)27-CO-58-G+M,,SIG/SUM,,FIS)
21817013 REACTION (40-ZR-90(N,2N)40-ZR-89-G+M,,SIG/SUM,,FIS)
30501004 REACTION (49-IN-115(N,G)49-IN-116-M1+M2,,SIG/SUM)
30512002 REACTION (77-IR-191(N,G)77-IR-192-G+M,,SIG/SUM)
30616002 REACTION ((79-AU-197(N,2N)79-AU-196-M2,,SIG)/
(79-AU-197(N,2N)79-AU-196-G+M1,,SIG/SUM))
30645003 REACTION ((40-ZR-90(N,2N)40-ZR-89-M+G,,SIG/SUM)/
(41-NB-93(N,2N)41-NB-92-M,,SIG))
A0135002 REACTION 2(48-CD-111(P,N)49-IN-111-G+M,,SIG/SUM,,,EXP)
A0250002 REACTION C(40-ZR-90(P,N)41-NB-90-M+G,,SIG/SUM,,,EXP)