

MEMO CP-A/111

2 Apr 2001

To: **Distribution**
From: **F.E. Chukreev, S.Babykina**
Subject: **Additions to Dictionaries**

Add to Dictionary 36

PRE,AP NO (Most prob.mass,pre-neutron-emission)
(Most probable mass of pre-neutron emission
mass distribution of fragments)
SEC,AP NO (Most prob.mass of post-neut.-emiss.
frag.)
(Most probable mass of pre-delayed-neutron
mass distribution of fragments)

New experiments on GSI Fragment Separator request new numerous additions
to Dictionary 27.

Add to dictionary 27

28-NI-71 (1234)
28-NI-72 (1234)
28-NI-74 (1234)
34-SE-91 (1234)
35-BR-94 (1234)
36-KR-96 (1234)
39-Y-81 (1234)
39-Y-104 (1234)
39-Y-105 (1234)
40-ZR-106 (1234)
40-ZR-107 (1234)
42-MO-110 (1234)
42-MO-111 (1234)
42-MO-112 (1234)
42-MO-113 (1234)
43-TC-91 (1234 1)
43-TC-113 (1234)
43-TC-114 (1234)
43-TC-115 (1234)
44-RU-116 (1234)
44-RU-117 (1234)
44-RU-118 (1234)
45-RH-118 (1234)
45-RH-119 (1234)

45-RH-120 (1234)
45-RH-121 (1234)
46-PD-121 (1234)
46-PD-122 (1234)
46-PD-123 (1234)
47-AG-124 (1234)
47-AG-125 (1234)
47-AG-126 (1234)
50-SN-134 (1234)
50-SN-135 (1234)
50-SN-136 (1234)
51-SB-137 (1234)
51-SB-138 (1234)
51-SB-139 (1234)
52-TE-139 (1234)
52-TE-140 (1234)
52-TE-141 (1234)
52-TE-142 (1234)
56-BA-122 (1234)
56-BA-123 (1234)
57-LA-124 (1234)
57-LA-125 (1234)
57-LA-126 (1234)
57-LA-127 (1234)
57-LA-128 (1234)
57-LA-150 (1234)
57-LA-151 (1234)
58-CE-126 (1234)
58-CE-127 (1234)
58-CE-128 (1234)
58-CE-129 (1234)
58-CE-130 (1234)
58-CE-151 (1234)
58-CE-152 (1234)
58-CE-153 (1234)
59-PR-127 (1234)
59-PR-128 (1234)
59-PR-129 (1234)
59-PR-130 (1234)
59-PR-131 (1234)
59-PR-132 (1234)
59-PR-133 (1234)
59-PR-134 (1234)
59-PR-135 (1234)
59-PR-136 (1234)
59-PR-150 (1234)
59-PR-151 (1234)
59-PR-152 (1234)
59-PR-153 (1234)
59-PR-154 (1234)
60-ND-129 (1234)
60-ND-130 (1234)
60-ND-131 (1234)

60-ND-132 (1234)
60-ND-133 (1234)
60-ND-134 (1234)
60-ND-135 (1234)
60-ND-136 (1234)
60-ND-137 (1234)
62-SM-134 (1234)
63-EU-137 (1234)
72-HF-185 (1234)
72-HF-186 (1234)
72-HF-187 (1234)
72-HF-188 (1234)
73-TA-187 (1234)
73-TA-188 (1234)
73-TA-189 (1234)
74-W-190 (1234)
74-W-191 (1234)
74-W-192 (1234)
75-RE-191 (1234)
75-RE-193 (1234)
75-RE-194 (1234)
78-PT-202 (1234)
78-PT-203 (1234)
78-PT-204 (1234)
79-AU-174 (1234)
79-AU-176 (1234)
79-AU-204 (1234)
80-HG-207 (1234)
81-TL-209 (1234)
83-BI-195 (1234)
85-AT-216 (1234)
86-RN-215 (1234)
86-RN-216 (1234)
86-RN-217 (1234)
86-RN-220 (1234)
87-FR-214 (1234)
87-FR-215 (1234)
87-FR-216 (1234)
87-FR-217 (1234)
87-FR-218 (1234)
88-RA-208 (1234)
88-RA-209 (1234)
88-RA-210 (1234)
88-RA-211 (1234)
88-RA-212 (1234)
88-RA-213 (1234)
88-RA-214 (1234)
88-RA-215 (1234)
88-RA-217 (1234)
88-RA-218 (1234)
88-RA-219 (1234)
89-AC-211 (1234)
89-AC-212 (1234)

89-AC-213 (1234)
89-AC-214 (1234)
89-AC-215 (1234)
89-AC-216 (1234)
89-AC-218 (1234)
89-AC-219 (1234)
89-AC-220 (1234)
89-AC-221 (1234)
89-AC-234 (1234)
90-TH-215 (1234)
90-TH-216 (1234)
90-TH-217 (1234)
90-TH-219 (1234)
90-TH-220 (1234)
90-TH-221 (1234)
90-TH-222 (1234)
90-TH-223 (1234)
91-PA-224 (1234)

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Add Isomer code for

35-BR-70 (1234 1)
2 isomers exist, not known which one is ground state
67-HO-156 (1234 1)
39-Y-83 (1234 1)
55-CS-118 (1234 1)
2 isomers exist, not known which one is ground state
56-BA-125 (1234 1)
71-LU-160 (1234 1)
2 isomers exist, not known which one is ground state
71-LU-170 (1234 1)

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Distribution:

DUNFORD@BNLND2.DNE.BNL.GOV
VML@BNL.GOV
NORDBORG@NEA.FR
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