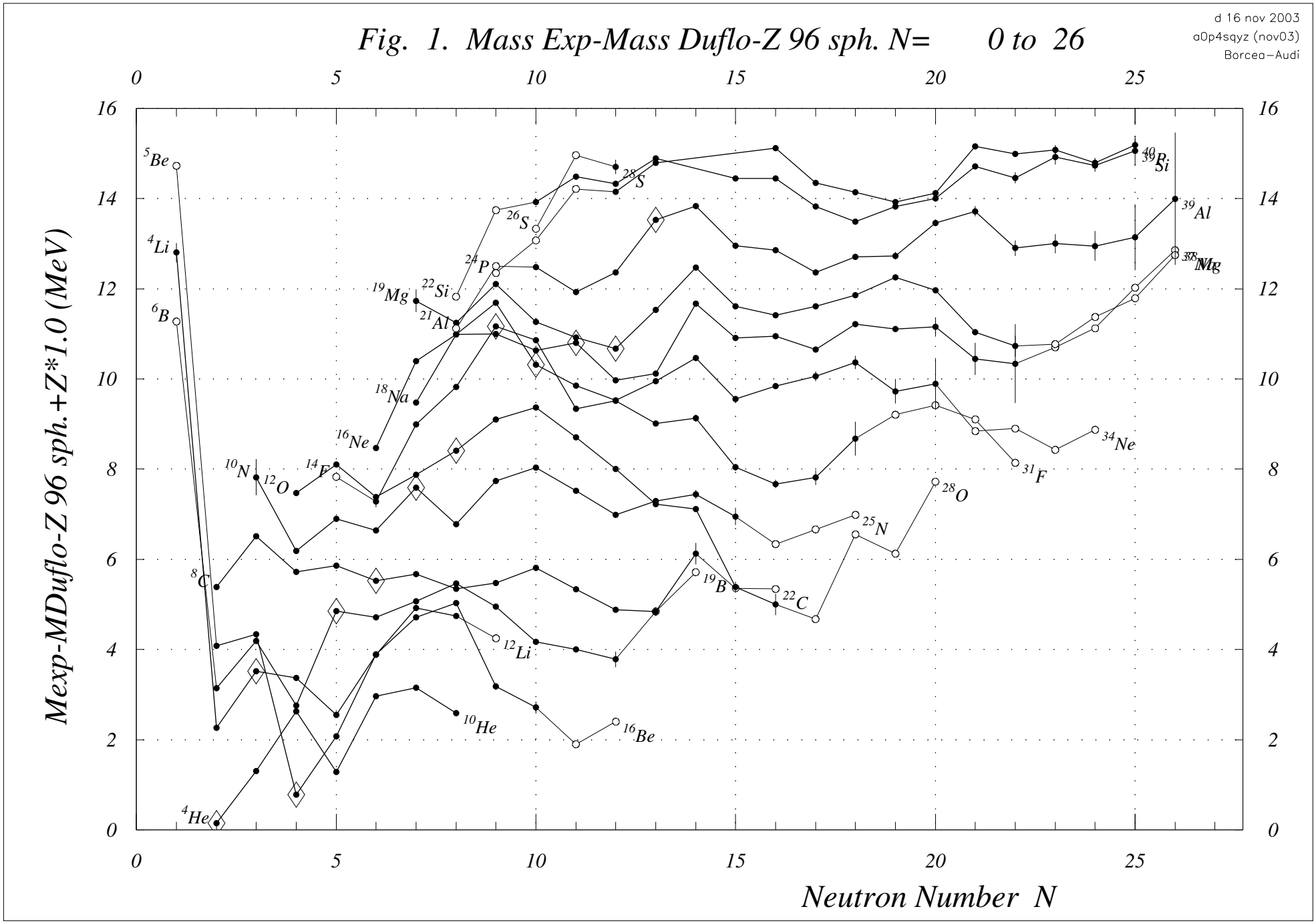
Fig. 1. Mass Exp-Mass Duflo-Z 96 sph. N= 0 to 26
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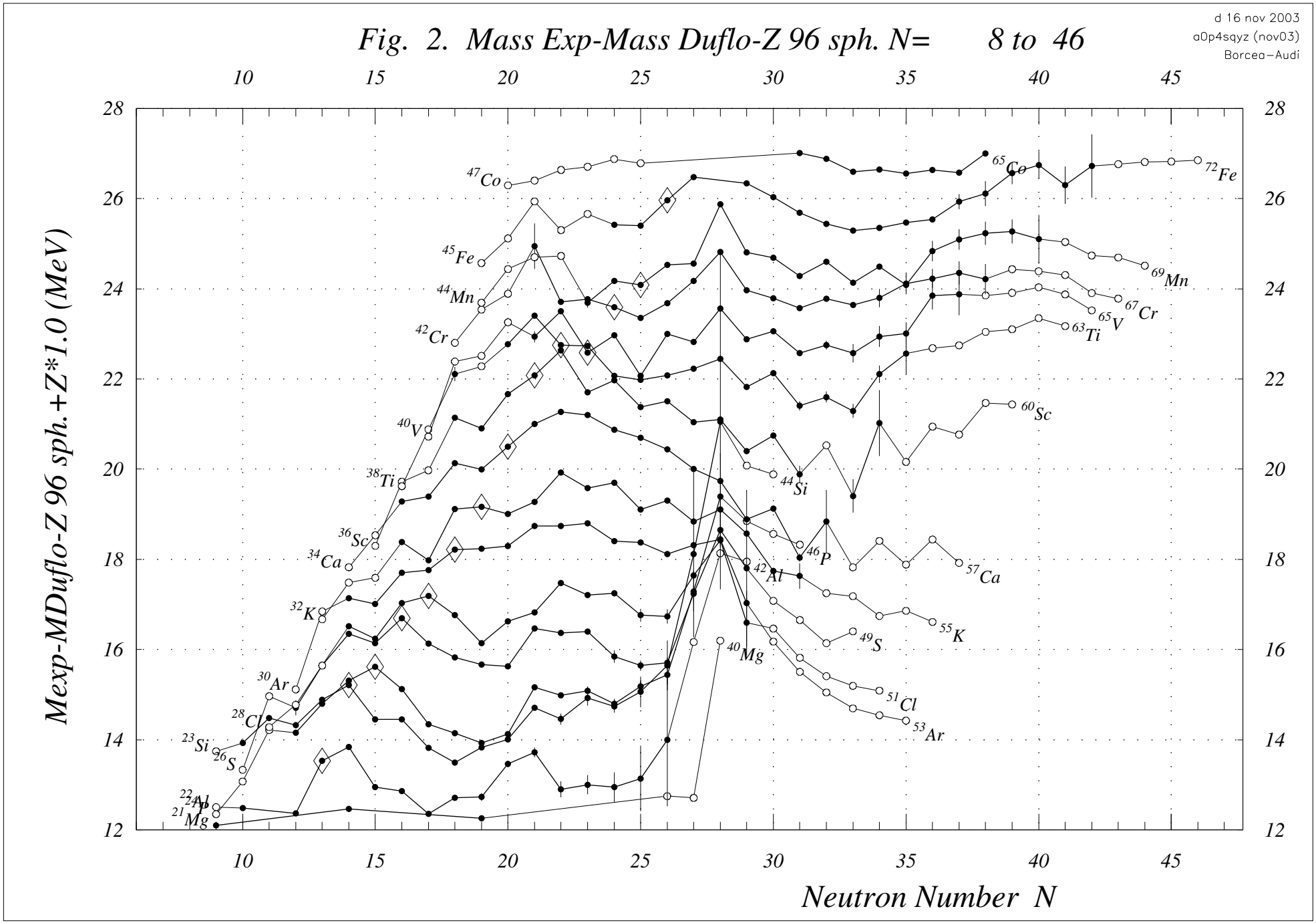
Mexp-MDuflo-Z 96 sph.+Z*1.0 (MeV)
Neutron Number N
0
5
10
15
20
25
2
4
6
8
12
14
16
5Be
4Li
6B
8C
4He
10N
12O
14F
16Ne
18Na
19Mg
21Al
22Si
24P
26S
28S
10He
12Li
16Be
19B
22C
25N
28O
31F
34Ne
39Al
39Si
40Si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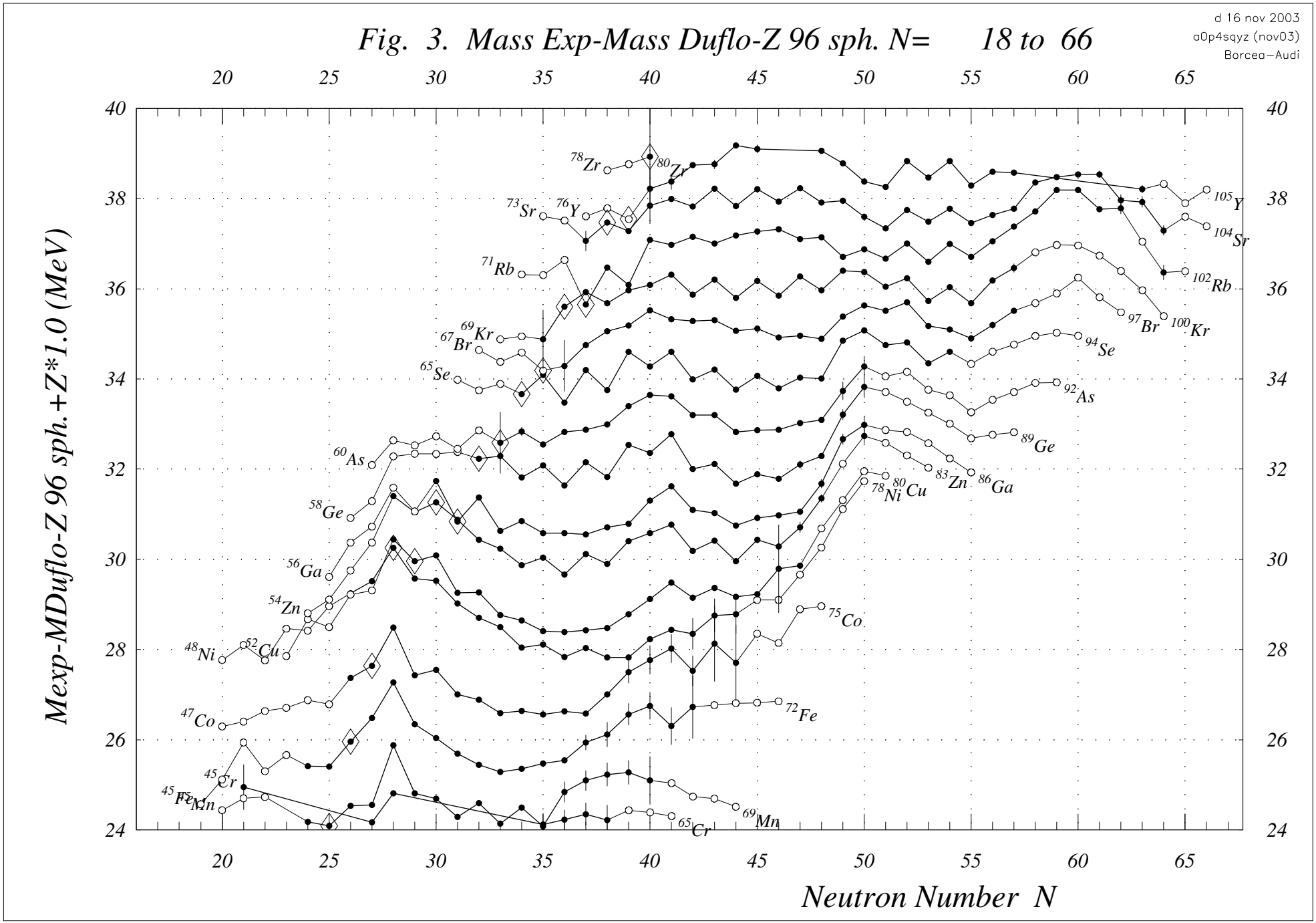
a0p4sqyz (nov03)
Borcea–Audi
Fig. 2. Mass Exp-Mass Duflo-Z 96 sph. N= 8 to 46
Mexp-MDuflo-Z 96 sph.+Z*1.0 (MeV)
Neutron Number N
10
15
20
25
30
35
40
45
12
14
16
18
20
22
24
26
28
47Co
45Fe
44Mn
42Cr
40V
38Ti
36Sc
34Ca
32K
30Ar
28Cl
26S
24Al
23Si
22Mg
21Na
65Co
72Fe
69Mn
67Cr
65V
63Ti
60Sc
44Si
46P
42Al
57Ca
55K
49S
40Mg
51Cl
53Ar


d 16 nov 2003
a0p4sqyz (nov03)
Borcea–Audi
Fig. 3. Mass Exp-Mass Duflo-Z 96 sph. N= 18 to 66
Mexp-MDuflo-Z 96 sph.+Z*1.0 (MeV)
Neutron Number N
20
25
30
35
40
45
50
55
60
65
24
26
28
30
32
34
36
38
40
78Zr
80Zr
73Sr
76Y
71Rb
69Kr
67Br
65Se
60As
58Ge
56Ga
54Zn
48Ni
52Cu
47Co
45Cr
45Fe
Mn
65Cr
69Mn
72Fe
75Co
78Ni
80Cu
83Zn
86Ga
89Ge
92As
94Se
97Br
100Kr
102Rb
104Sr
105Y

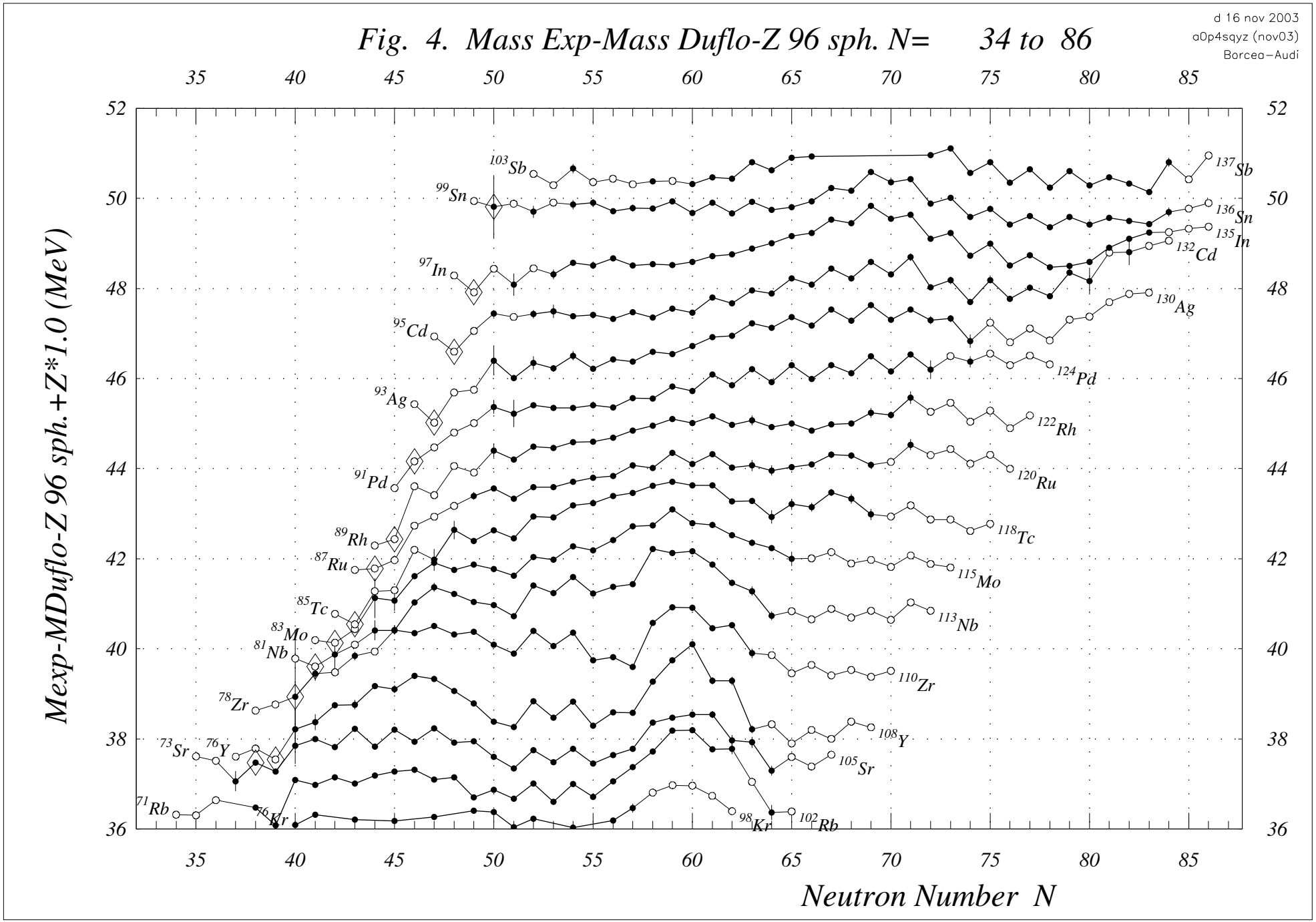
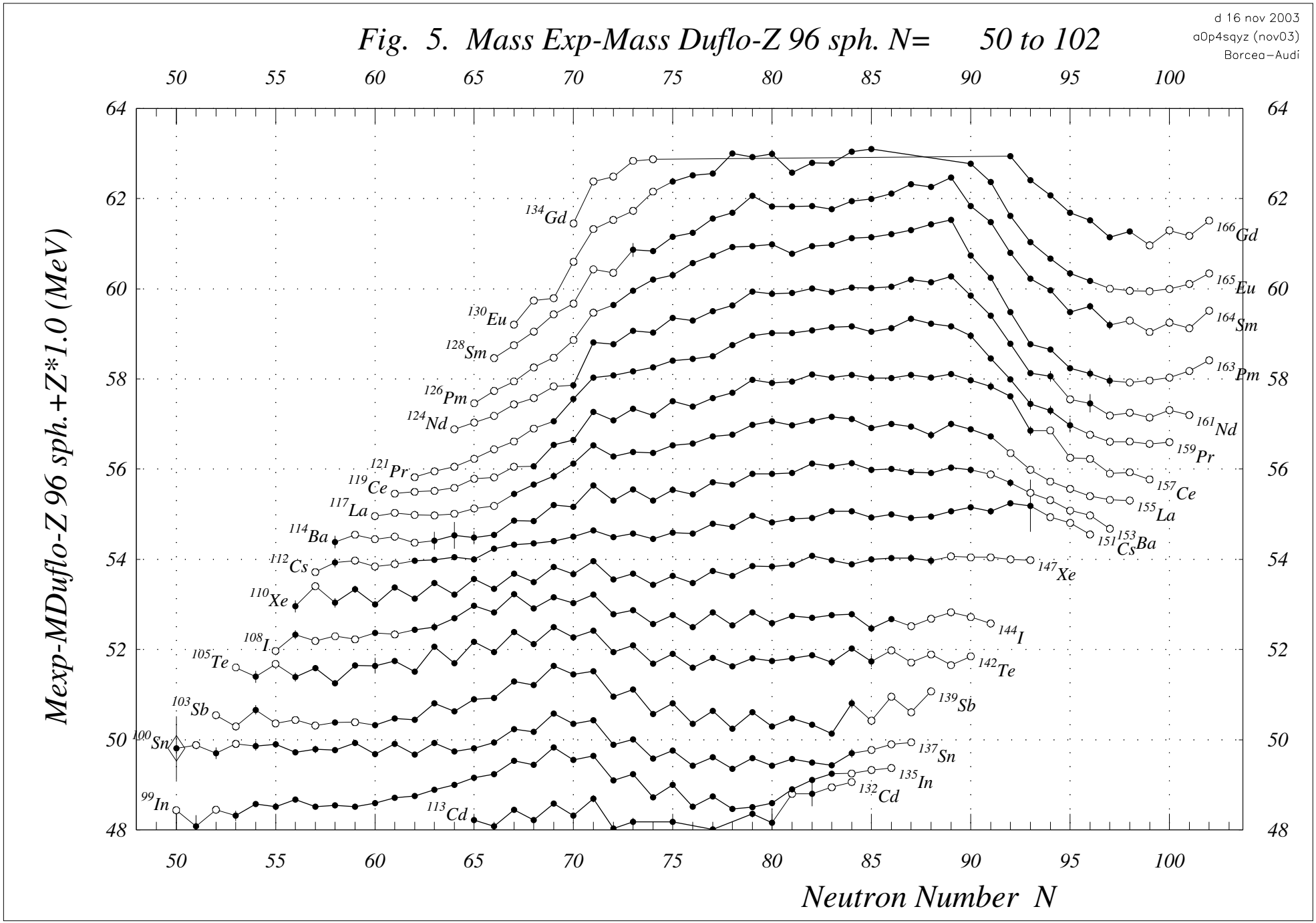


Fig. 4. Mass Exp-Mass Duflo-Z 96 sph. N= 34 to 86
d 16 nov 2003
a0p4sqyz (nov03)
Borcea–Audi
Mexp-MDuflo-Z 96 sph.+Z*1.0 (MeV)
Neutron Number N
35 40 45 50 55 60 65 70 75 80 85
36 38 40 42 44 46 48 50 52
103Sb
99Sn
97In
95Cd
93Ag
91Pd
89Rh
87Ru
85Tc
83Mo
81Nb
78Zr
73Sr
76Y
71Rb
76Kr
137Sb
136Sn
135In
132Cd
130Ag
124Pd
122Rh
120Ru
118Tc
115Mo
113Nb
110Zr
108Y
105Sr
98Kr
102Rb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a0p4sqyz (nov03)
Borcea–Audi
Fig. 5. Mass Exp-Mass Duflo-Z 96 sph. N= 50 to 102
Mexp-MDuflo-Z 96 sph.+Z*1.0 (MeV)
Neutron Number N
50 55 60 65 70 75 80 85 90 95 100
64 62 60 58 56 54 52 50 48
134Gd
130Eu
128Sm
126Pm
124Nd
121Pr
119Ce
117La
114Ba
112Cs
110Xe
108I
105Te
103Sb
100Sn
99In
113Cd
132Cd
135In
137Sn
139Sb
142Te
144I
147Xe
151Cs
153Ba
155La
157Ce
159Pr
161Nd
163Pm
164Sm
165Eu
166Gd

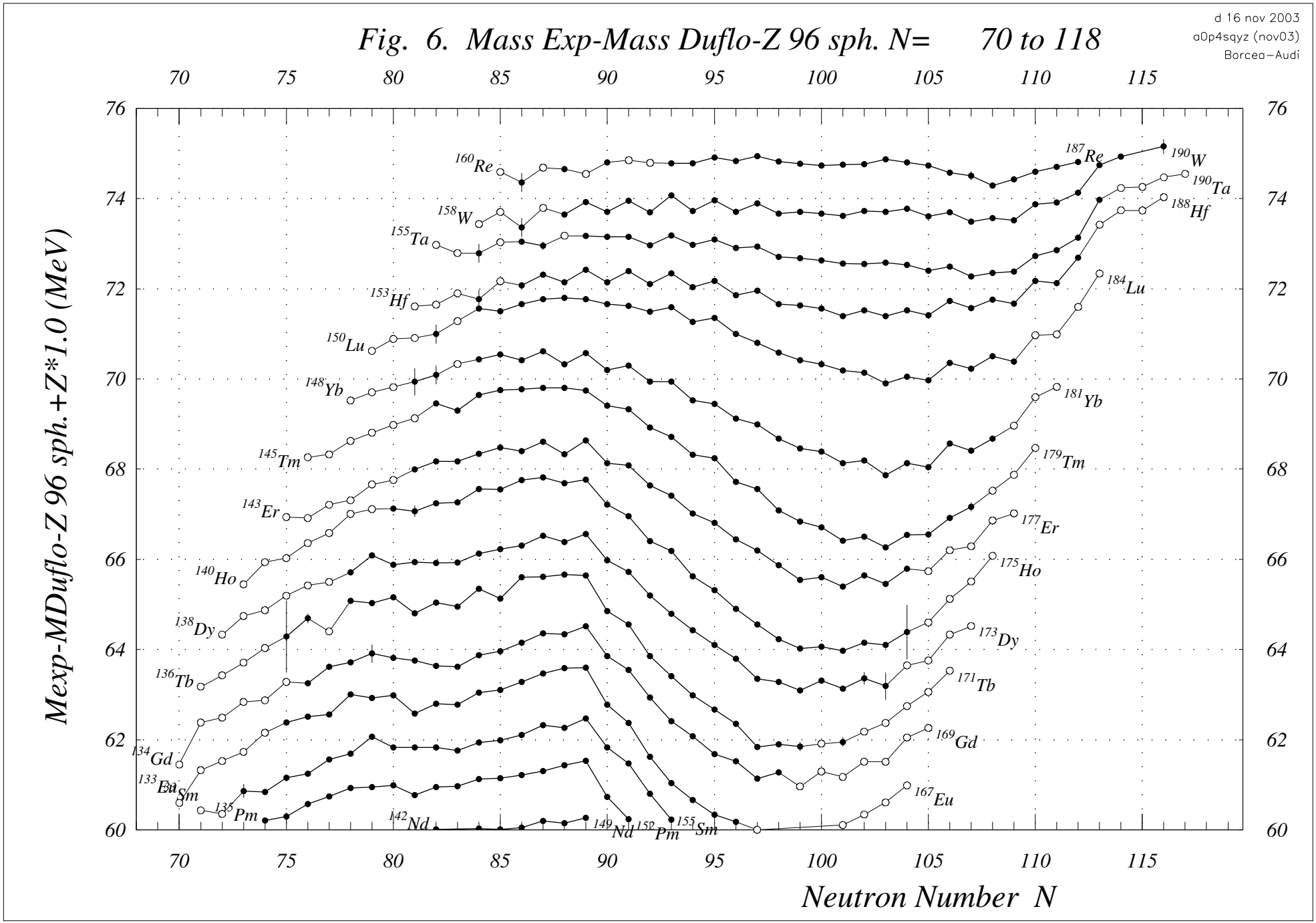
Fig. 6. Mass Exp-Mass Duflo-Z 96 sph. N= 70 to 118
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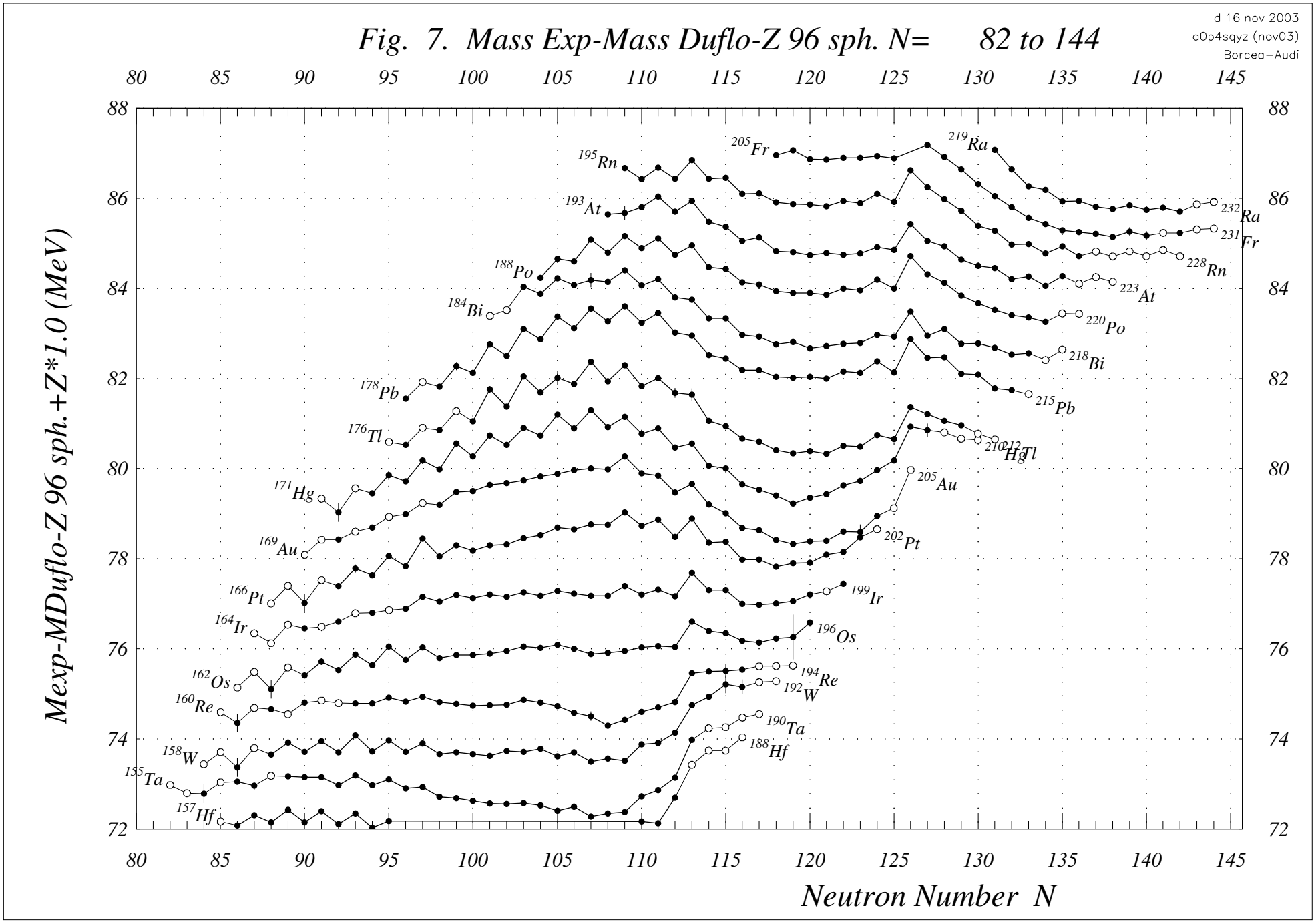
Borcea–Audi
Mexp-MDuflo-Z 96 sph.+Z*1.0 (MeV)
Neutron Number N
70
75
80
85
90
95
100
105
110
115
60
62
64
66
68
70
72
74
76
160Re
158W
155Ta
153Hf
150Lu
148Yb
145Tm
143Er
140Ho
138Dy
136Tb
134Gd
133Eu
135Sm
135Pm
142Nd
149Nd
152Pm
155Sm
187Re
190W
190Ta
188Hf
184Lu
181Yb
179Tm
177Er
175Ho
173Dy
171Tb
169Gd
167Eu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a0p4sqyz (nov03)
Borcea–Audi
Fig. 7. Mass Exp-Mass Duflo-Z 96 sph. N= 82 to 144
Mexp-MDuflo-Z 96 sph.+Z*1.0 (MeV)
Neutron Number N
80 85 90 95 100 105 110 115 120 125 130 135 140 145
72 74 76 78 80 82 84 86 88
195Rn
205Fr
219Ra
193At
232Ra
231Fr
188Po
228Rn
184Bi
223At
220Po
178Pb
218Bi
176Tl
215Pb
210Tl
212Bi
171Hg
205Au
169Au
202Pt
166Pt
199Ir
164Ir
196Os
162Os
194Re
160Re
192W
190Ta
158W
188Hf
155Ta
157Hf

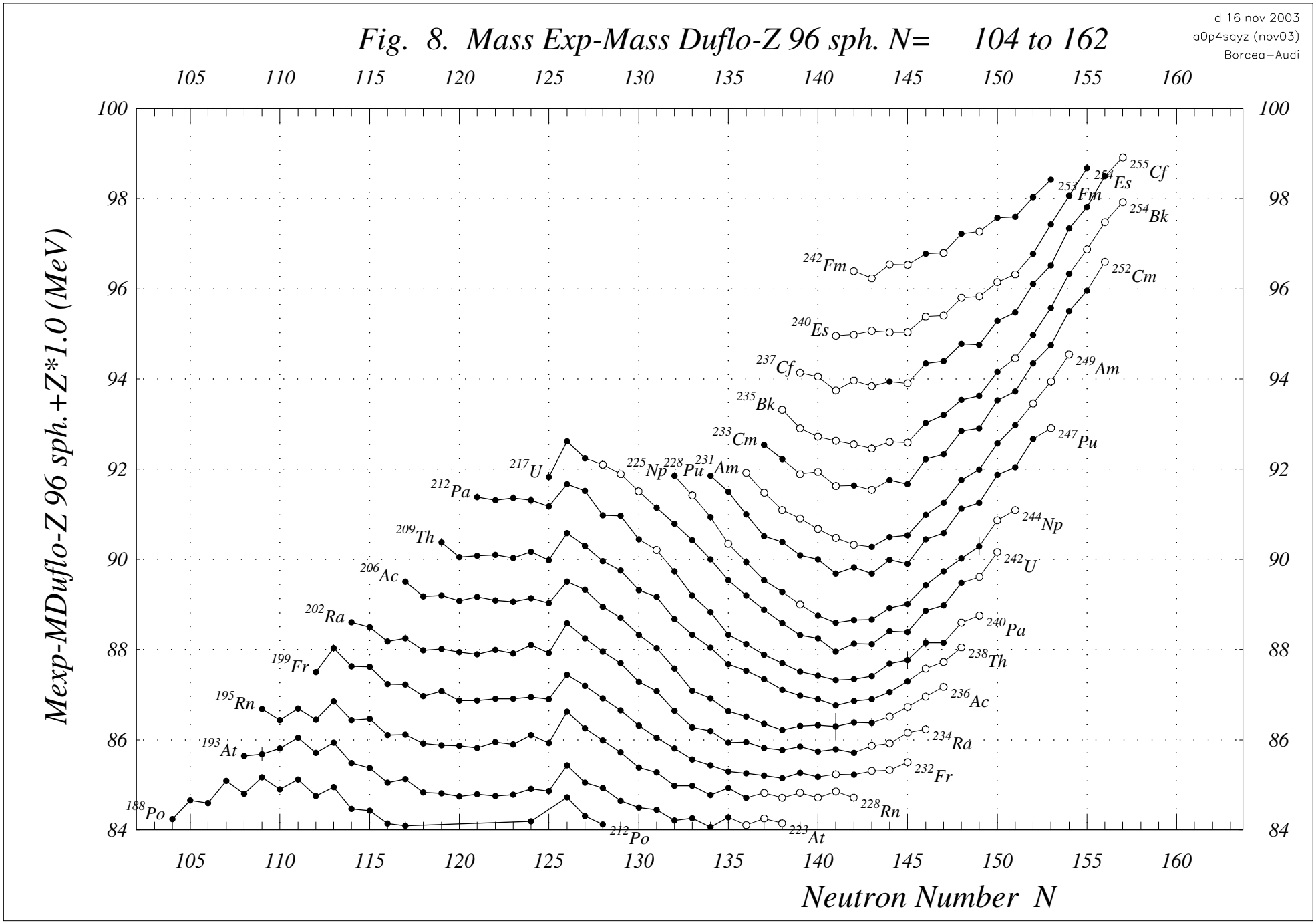


Fig. 8. Mass Exp-Mass Duflo-Z 96 sph. N= 104 to 162
d 16 nov 2003
a0p4sqyz (nov03)
Borcea–Audi
Mexp-MDuflo-Z 96 sph.+Z*1.0 (MeV)
Neutron Number N
105
110
115
120
125
130
135
140
145
150
155
160
84
86
88
90
92
94
96
98
100
188Po
193At
195Rn
199Fr
202Ra
206Ac
209Th
212Pa
217U
212Po
223At
228Rn
232Fr
234Ra
236Ac
238Th
240Pa
242U
244Np
247Pu
249Am
252Cm
254Bk
253Fm
254Es
255Cf
242Fm
240Es
237Cf
235Bk
233Cm
225Np
228Pu
231Am

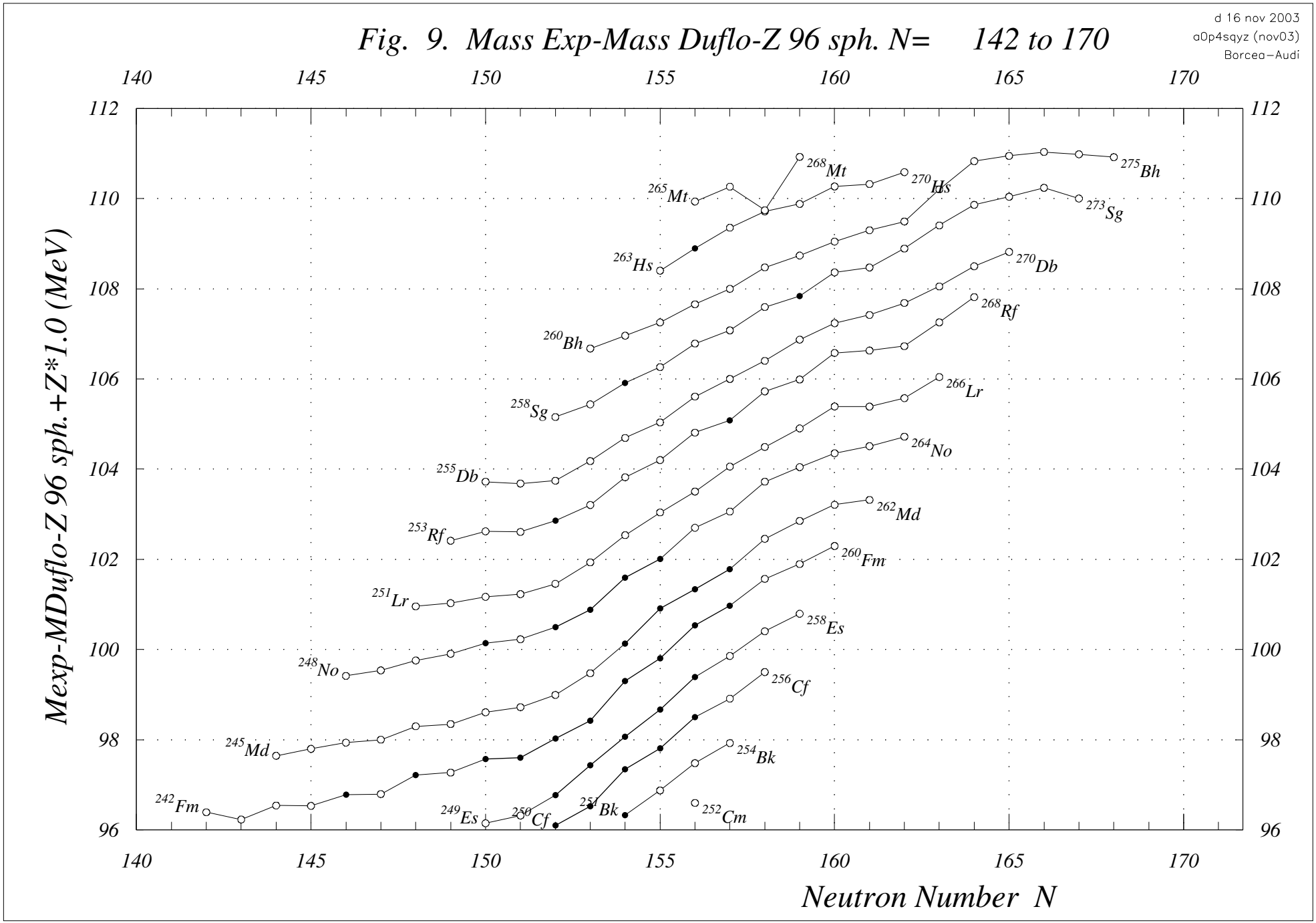
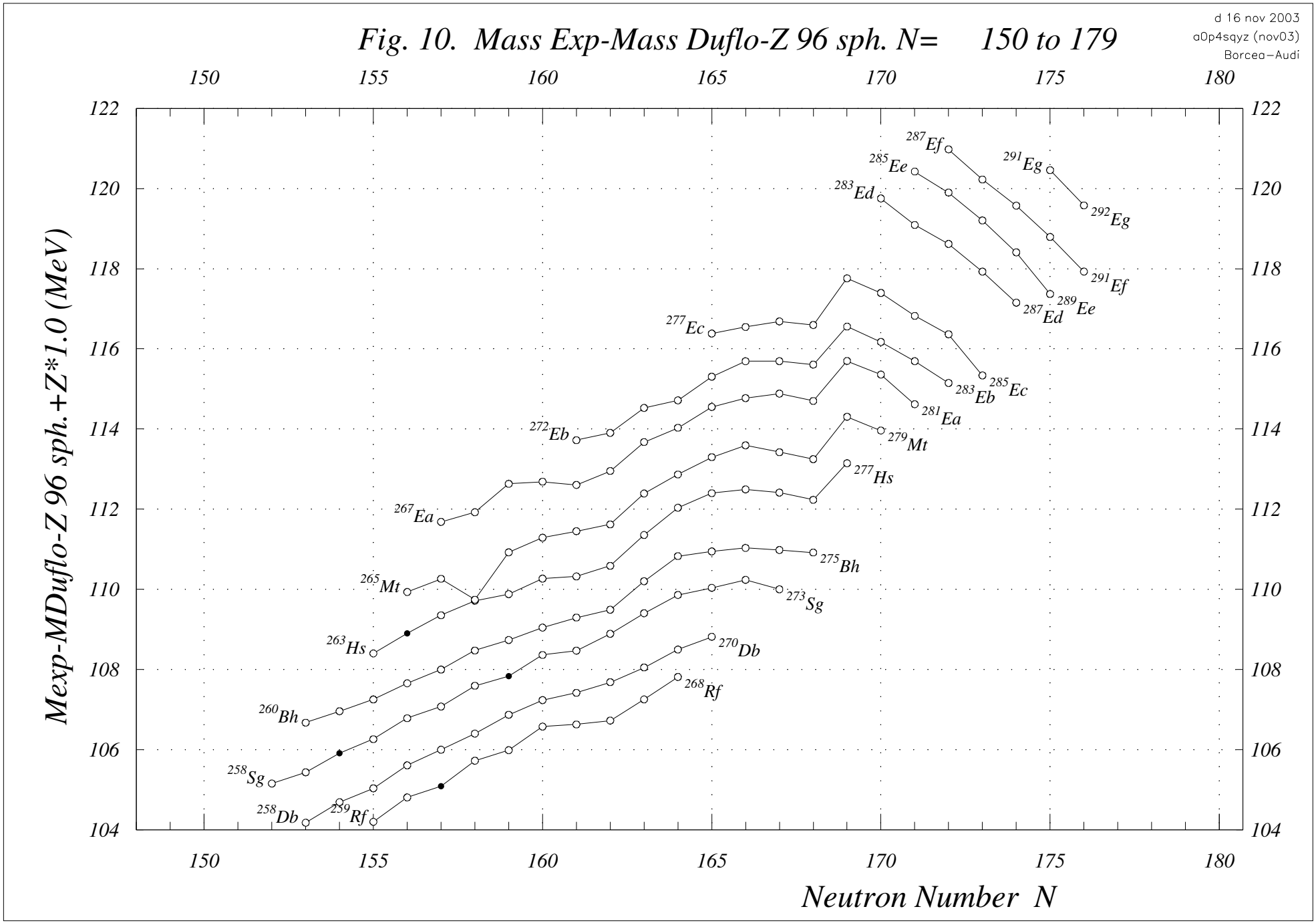


Fig. 9. Mass Exp-Mass Duflo-Z 96 sph. N= 142 to 170
d 16 nov 2003
a0p4sqyz (nov03)
Borcea–Audi
Mexp-MDuflo-Z 96 sph.+Z*1.0 (MeV)
Neutron Number N
140
145
150
155
160
165
170
96
98
100
102
104
106
108
110
112
^{242}Fm
^{245}Md
^{248}No
^{251}Lr
^{253}Rf
^{255}Db
^{258}Sg
^{260}Bh
^{263}Hs
^{265}Mt
^{268}Mt
^{270}Hs
^{275}Bh
^{273}Sg
^{270}Db
^{268}Rf
^{266}Lr
^{264}No
^{262}Md
^{260}Fm
^{258}Es
^{256}Cf
^{254}Bk
^{252}Cm
^{251}Bk
^{250}Cf
^{249}Es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a0p4sqyz (nov03)
Borcea–Audi
Fig. 10. Mass Exp-Mass Duflo-Z 96 sph. N= 150 to 179
Mexp-MDuflo-Z 96 sph.+Z*1.0 (MeV)
Neutron Number N
150
155
160
165
170
175
180
104
106
108
110
112
114
116
118
120
122
287Ef
285Ee
283Ed
291Eg
292Eg
291Ef
289Ee
287Ed
277Ec
285Ec
283Eb
281Ea
272Eb
279Mt
277Hs
267Ea
275Bh
265Mt
273Sg
263Hs
270Db
260Bh
268Rf
258Sg
258Db
259Rf