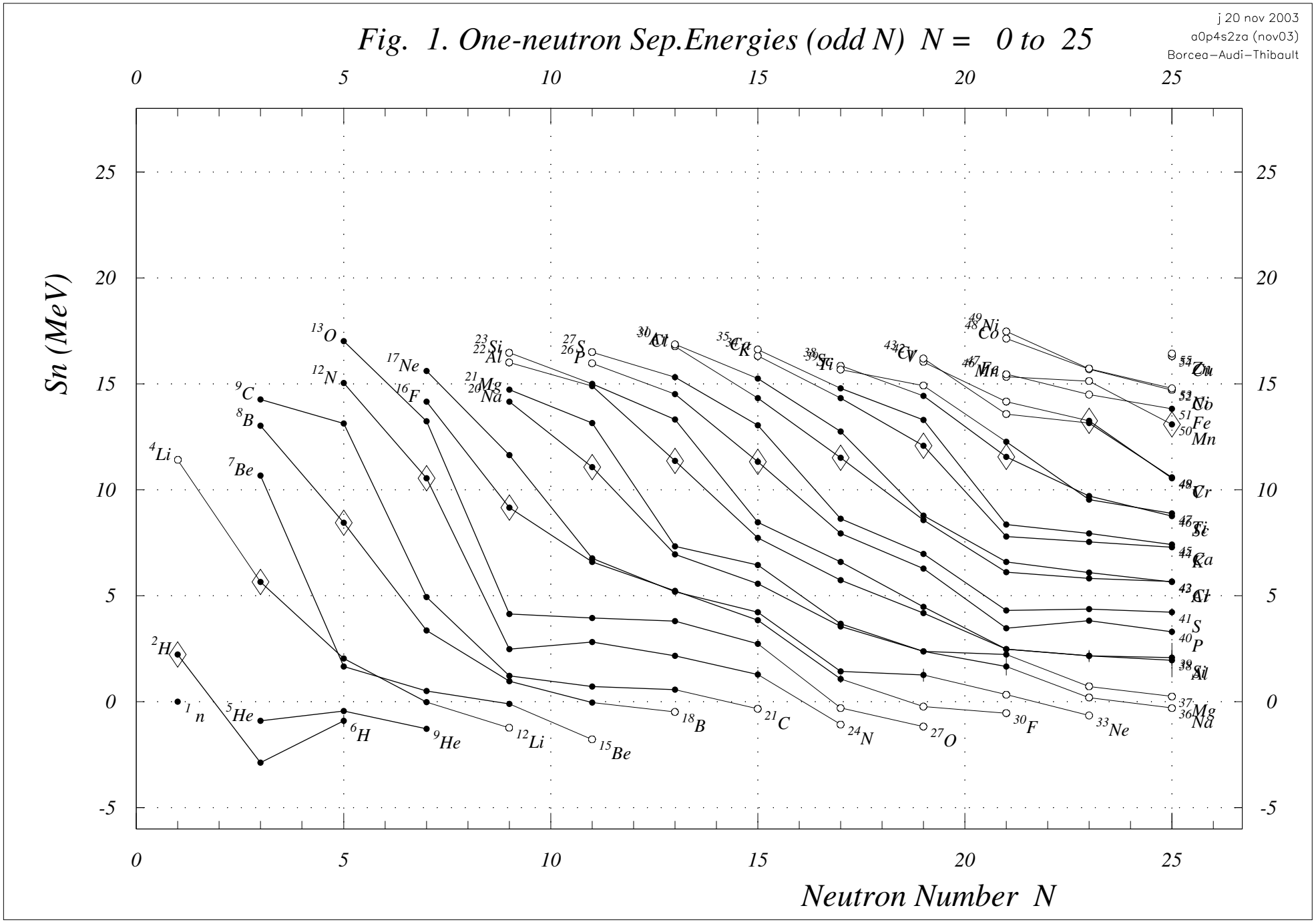

Fig. 1. One-neutron Sep.Energies (odd N) N = 0 to 25

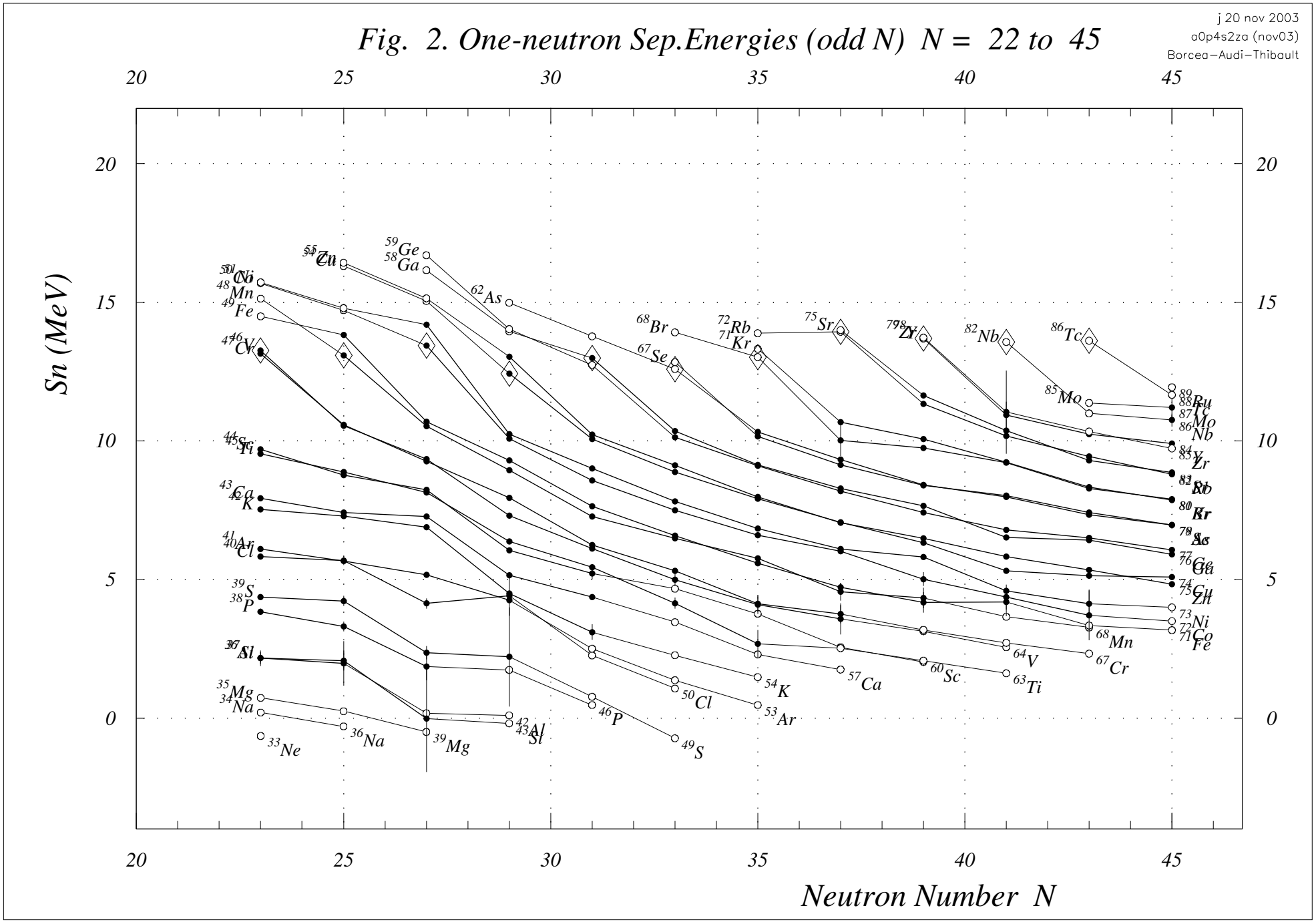
Fig. 2. One-neutron Sep.Energies (odd N) N = 22 to 45
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Borcea–Audi–Thibault
Sn (MeV)
Neutron Number N
20
25
30
35
40
45
0
5
10
15
^{59}Ge
^{58}Ga
^{62}As
^{68}Br
^{67}Se
^{72}Rb
^{71}Kr
^{75}Sr
^{79}Zr
^{82}Nb
^{86}Tc
^{85}Mo
^{68}Mn
^{64}V
^{67}Cr
^{63}Ti
^{60}Sc
^{57}Ca
^{54}K
^{53}Ar
^{50}Cl
^{49}S
^{46}P
^{43}Al
^{42}Si
^{39}Mg
^{36}Na
^{33}Ne

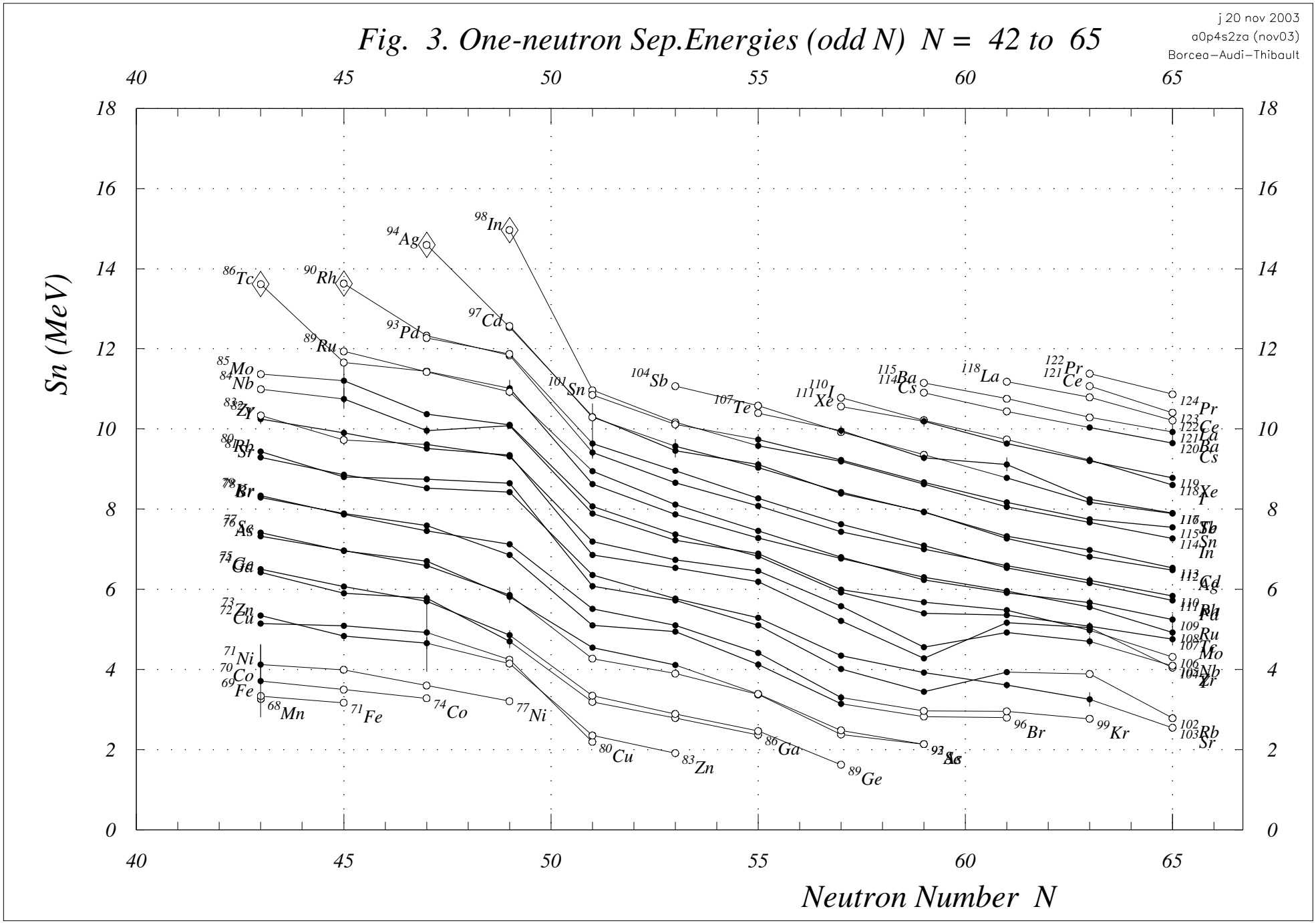
Fig. 3. One-neutron Sep.Energies (odd N) N = 42 to 65
j 20 nov 2003
a0p4s2za (nov03)
Borcea–Audi–Thibault
Sn (MeV)
Neutron Number N
40
45
50
55
60
65
0
2
4
6
8
10
12
14
16
18
86Tc
90Rh
94Ag
98In
89Ru
93Pd
97Cd
85Mo
84Nb
101Sn
104Sb
107Te
110I
111Xe
115Ba
114Ba
Cs
118La
122Pr
121Ce
124Pr
123Ce
122La
121Ba
120Cs
119
118Xe
I
117
116Sb
115Sn
114In
113Cd
112Ag
111Pd
110Rh
109Ru
108Tc
107Mo
106Nb
105Zr
104Y
103Sr
102Rb
99Kr
96Br
93As
89Ge
86Ga
83Zn
80Cu
77Ni
74Co
71Fe
68Mn
71Ni
70Co
69Fe
73Zn
72Cu
75Ga
74Ge
77As
76Se
79Br
78Kr
81Rb
80Sr
83Y
82Zr

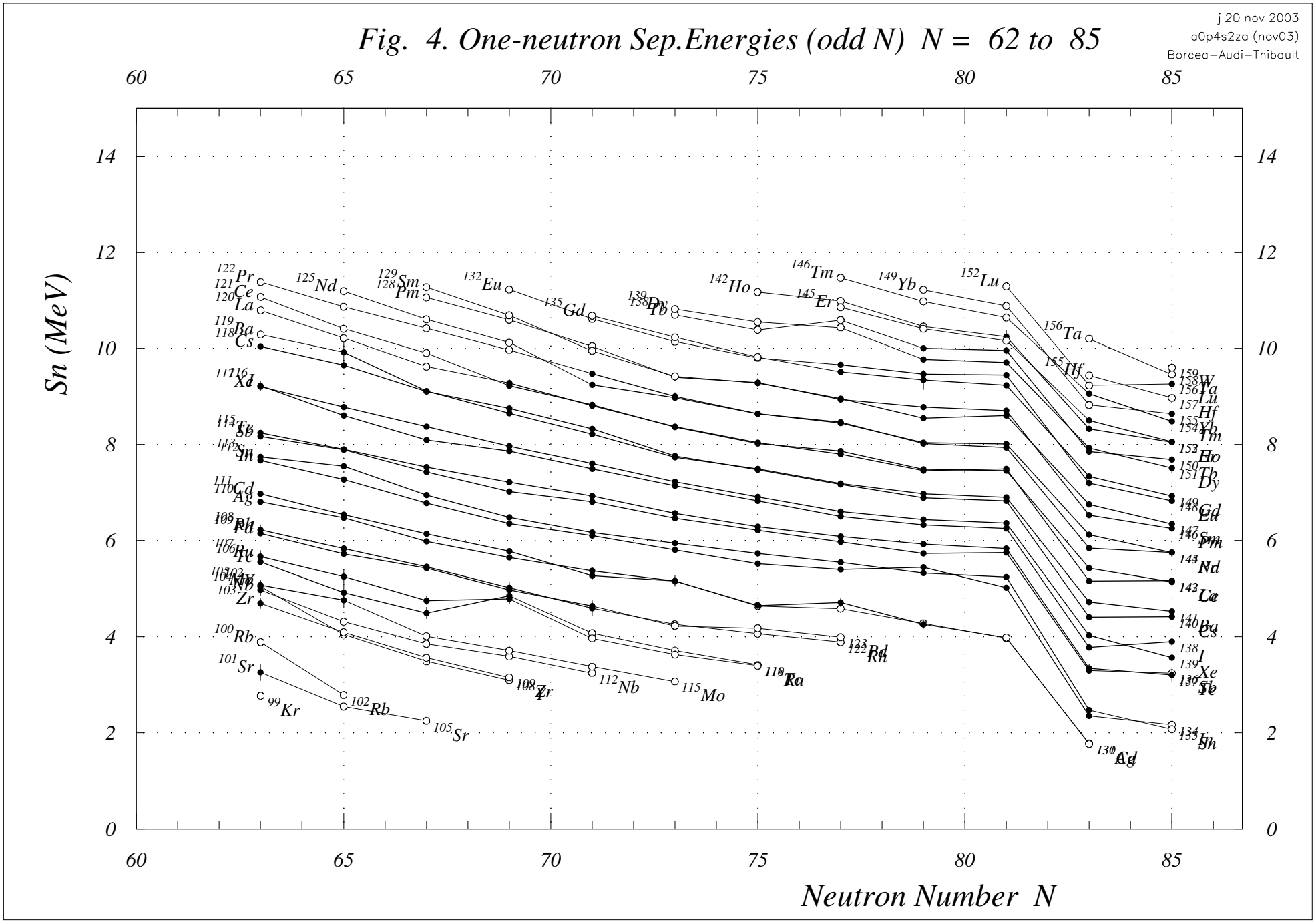
Fig. 4. One-neutron Sep.Energies (odd N) N = 62 to 85
j 20 nov 2003
a0p4s2za (nov03)
Borcea–Audi–Thibault
Sn (MeV)
Neutron Number N
60
65
70
75
80
85
0
2
4
6
8
10
12
14
122Pr
121Ce
120La
119Ba
118Cs
117Xe
114Sb
112Sn
111Cd
110Ag
109Pd
107Ru
106Tc
103Nb
103Zr
100Rb
101Sr
99Kr
125Nd
129Sm
128Pm
132Eu
135Gd
139Dy
138Tb
142Ho
146Tm
145Er
149Yb
152Lu
156Ta
155Hf
102Rb
105Sr
108Zr
112Nb
115Mo
118Tc
122Rh
123Pd
130Cd
158W
156Ta
157Lu
155Hf
154Yb
153Tm
152Ho
150Tb
151Dy
149Gd
148Eu
146Sm
145Pm
143Nd
143Ce
141Pr
140Ba
138Cs
138I
139Xe
137Te
134Sb
135Sn

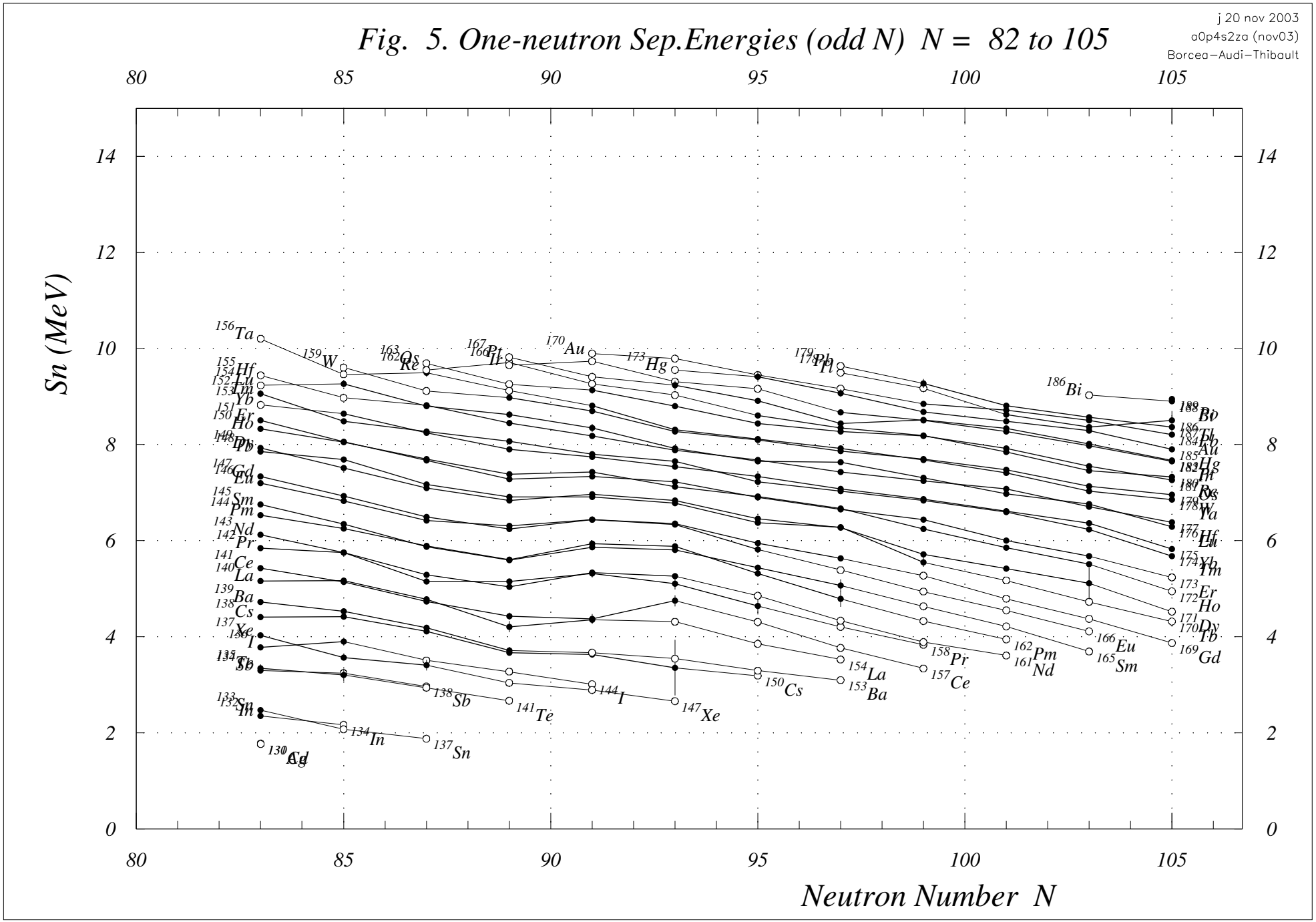
Fig. 5. One-neutron Sep.Energies (odd N) N = 82 to 105
j 20 nov 2003
a0p4s2za (nov03)
Borcea–Audi–Thibault
Sn (MeV)
Neutron Number N
80
85
90
95
100
105
0
2
4
6
8
10
12
14
156Ta
159W
162Re
163Os
166Ir
167Pt
170Au
173Hg
178Tl
179Pb
186Bi
155Hf
154Lu
153Yb
152Tm
151Er
150Ho
149Dy
148Tb
147Gd
146Eu
145Sm
144Pm
143Nd
142Pr
141Ce
140La
139Ba
138Cs
137Xe
136I
135Te
134Sb
133Sn
132In
131Cd
130Ag
138Sb
141Te
144I
147Xe
150Cs
153Ba
154La
157Ce
158Pr
161Nd
162Pm
165Sm
166Eu
169Gd
170Tb
171Dy
172Ho
173Er
174Tm
175Yb
176Lu
177Hf
178Ta
179W
180Re
181Os
182Ir
183Pt
184Au
185Hg
186Tl
187Pb
188Bi
134In
137Sn

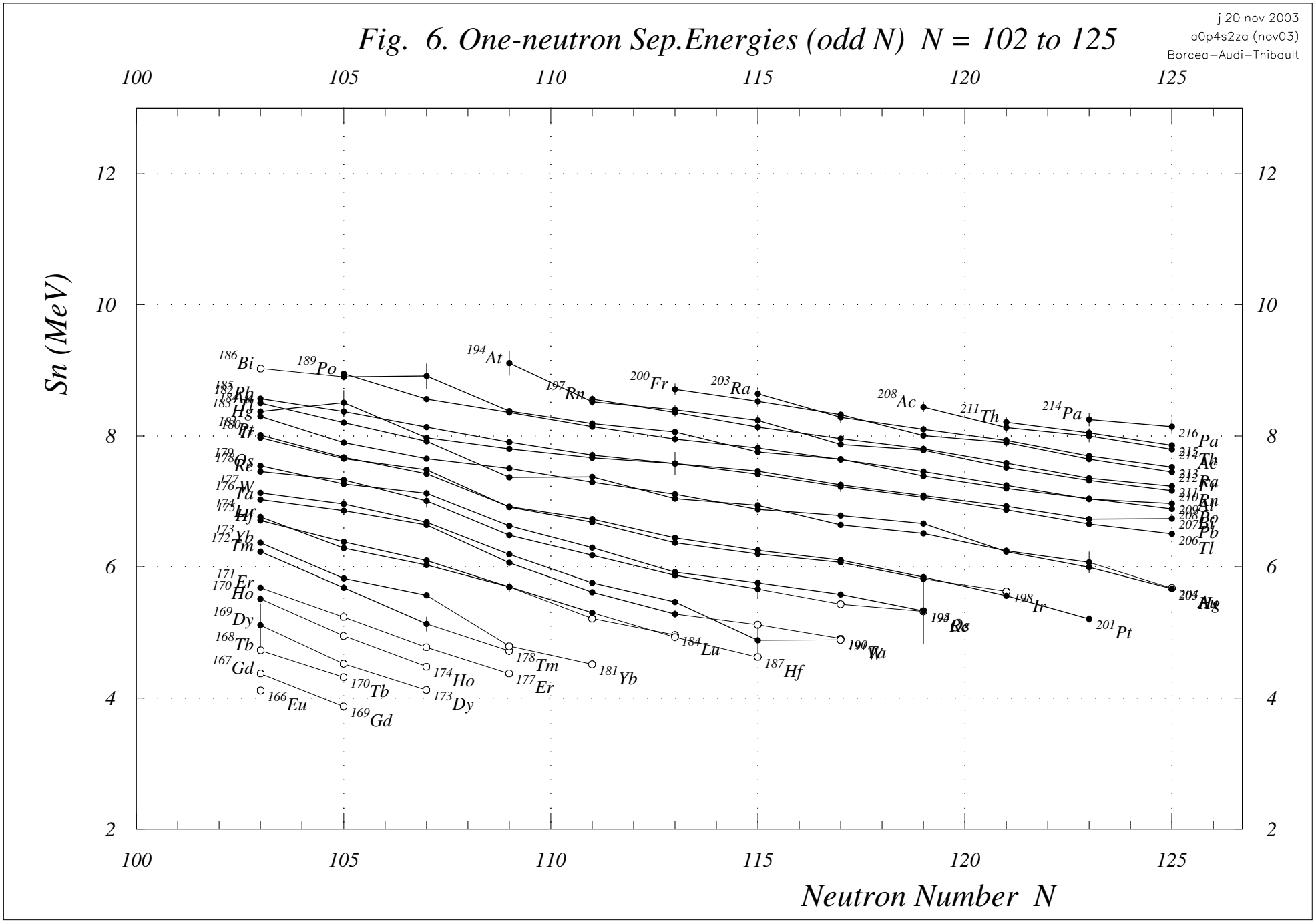
Fig. 6. One-neutron Sep.Energies (odd N) N = 102 to 125
j 20 nov 2003
a0p4s2za (nov03)
Borcea–Audi–Thibault
Sn (MeV)
Neutron Number N
100
105
110
115
120
125
2
4
6
8
10
12
186Bi
189Po
194At
197Rn
200Fr
203Ra
208Ac
211Th
214Pa
216Pa
185Rh
183Au
183Hg
180Ir
179Os
178Re
177W
176Ta
175Hf
173Yb
172Tm
171Er
170Ho
169Dy
168Tb
167Gd
166Eu
169Gd
170Tb
174Ho
173Dy
178Tm
177Er
181Yb
184Lu
187Hf
190W
193Os
198Ir
201Pt
206Tl
207Pb
208Bi
209At
210Rn
211Fr
212Ra
214Ac

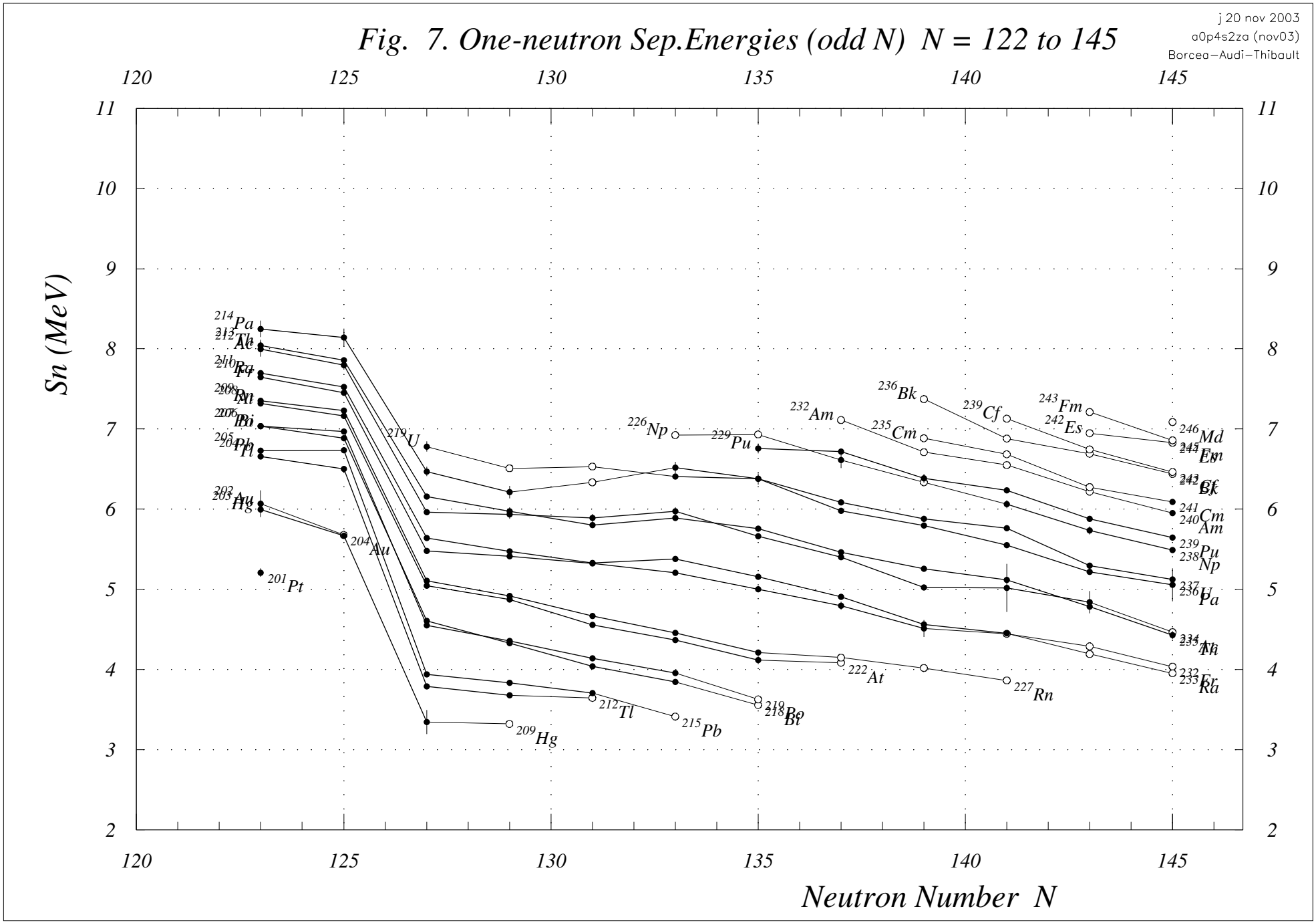

Fig. 7. One-neutron Sep.Energies (odd N) N = 122 to 145

Fig. 8. One-neutron Sep.Energies (odd N) N = 142 to 166

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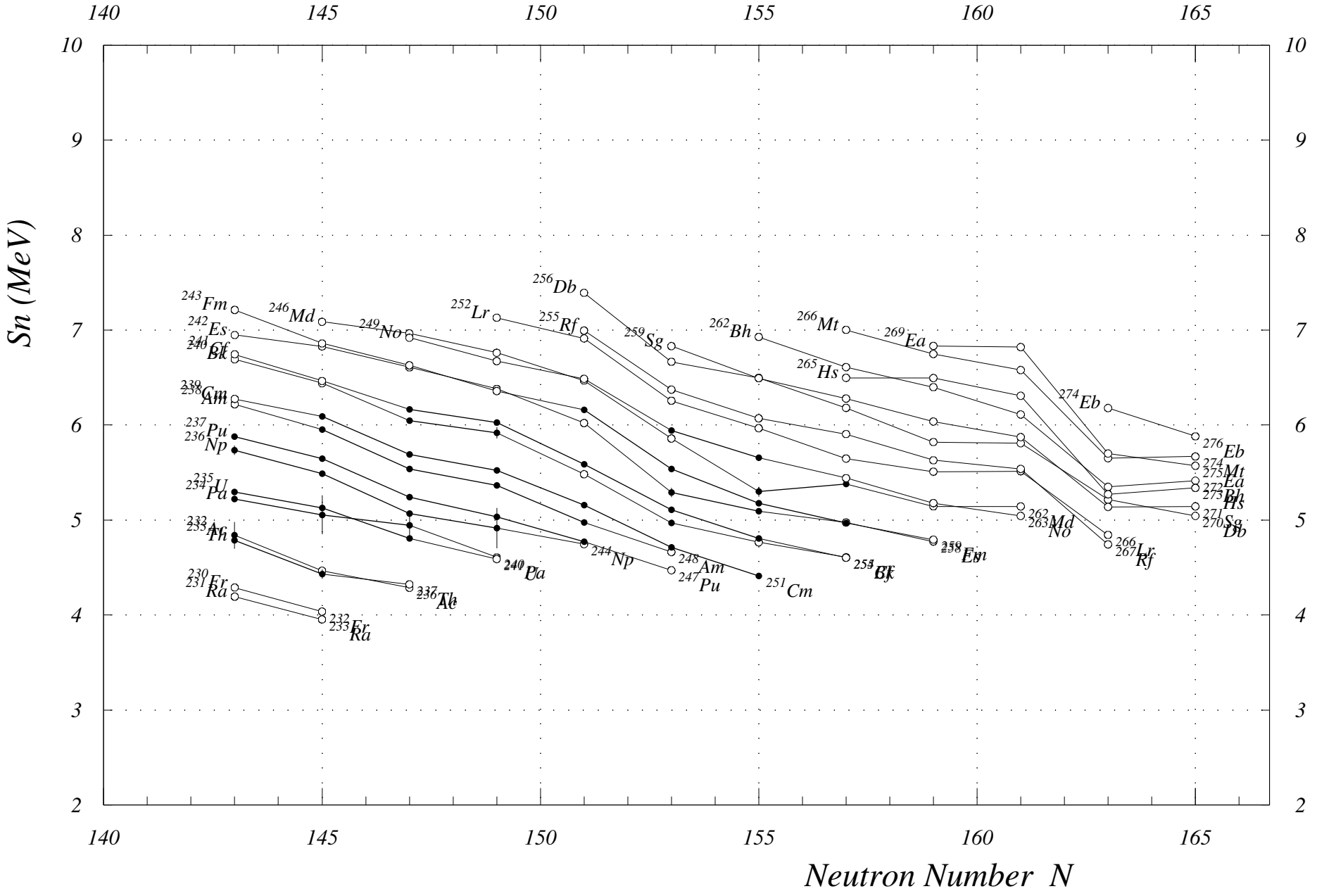
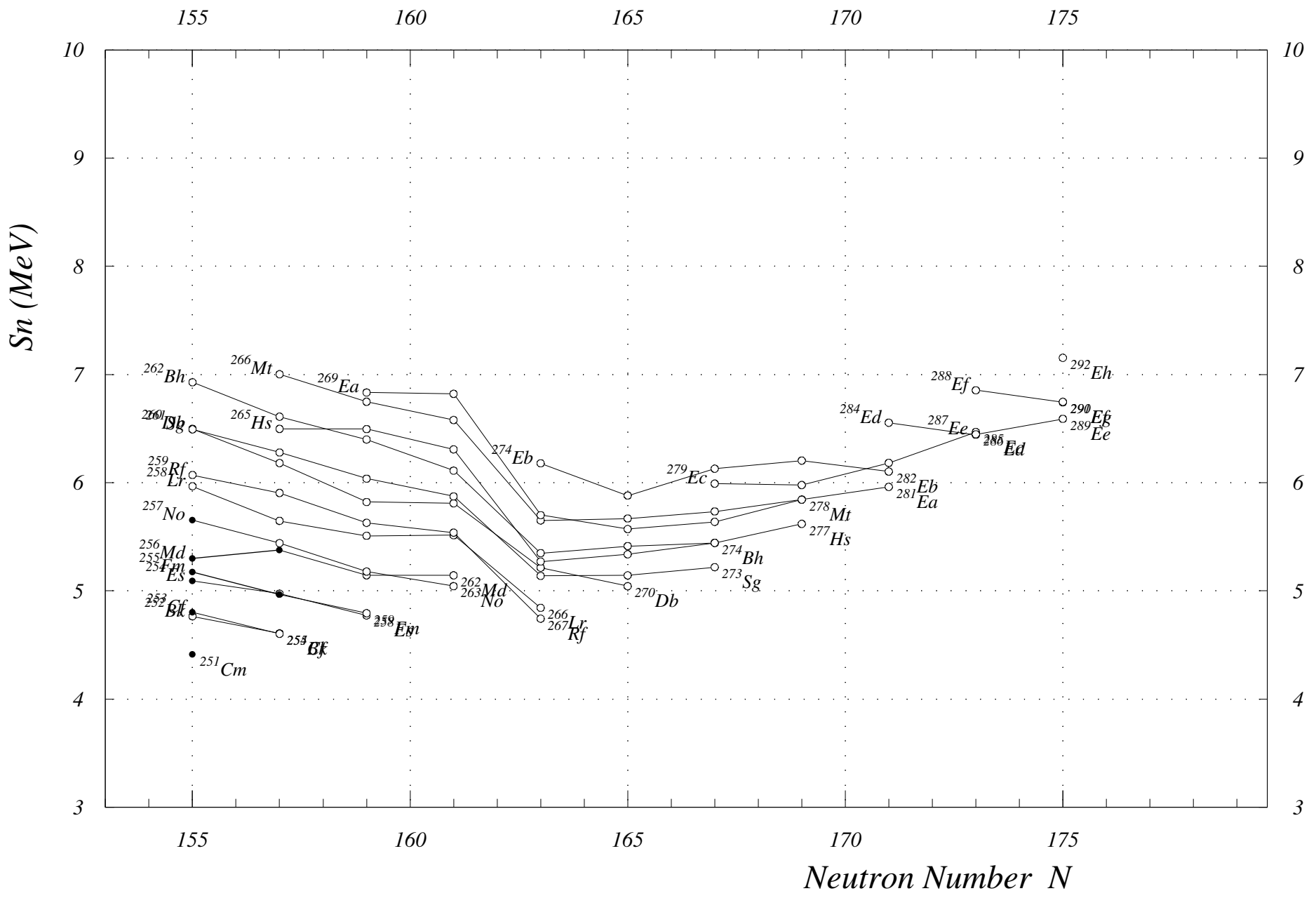


Fig. 9. One-neutron Sep.Energies (odd N) N = 155 to 178

j 20 nov 2003
a0p4s2za (nov03)
Borcea–Audi–Thibault