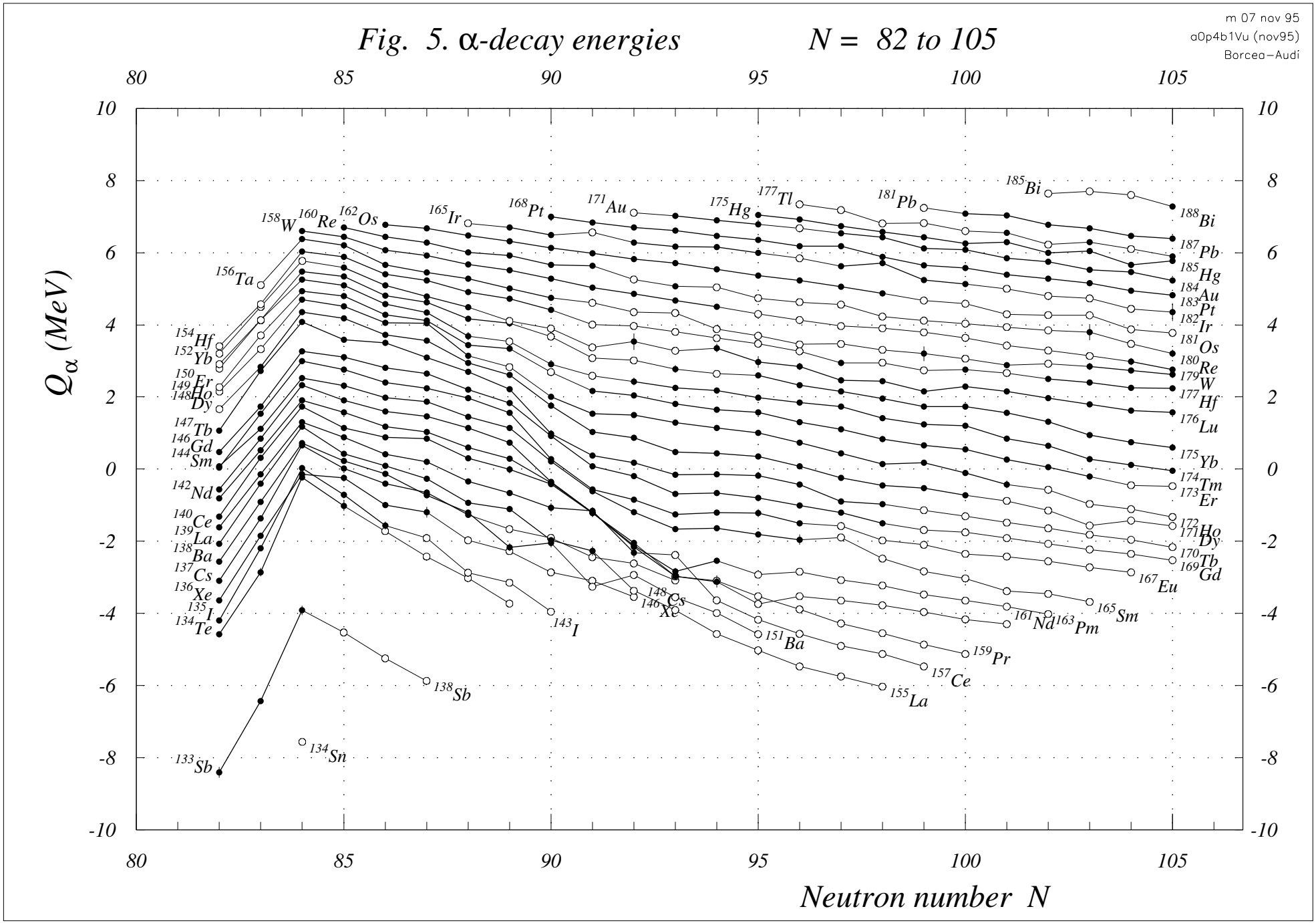
Fig. 5. α-decay energies N = 82 to 105
m 07 nov 95
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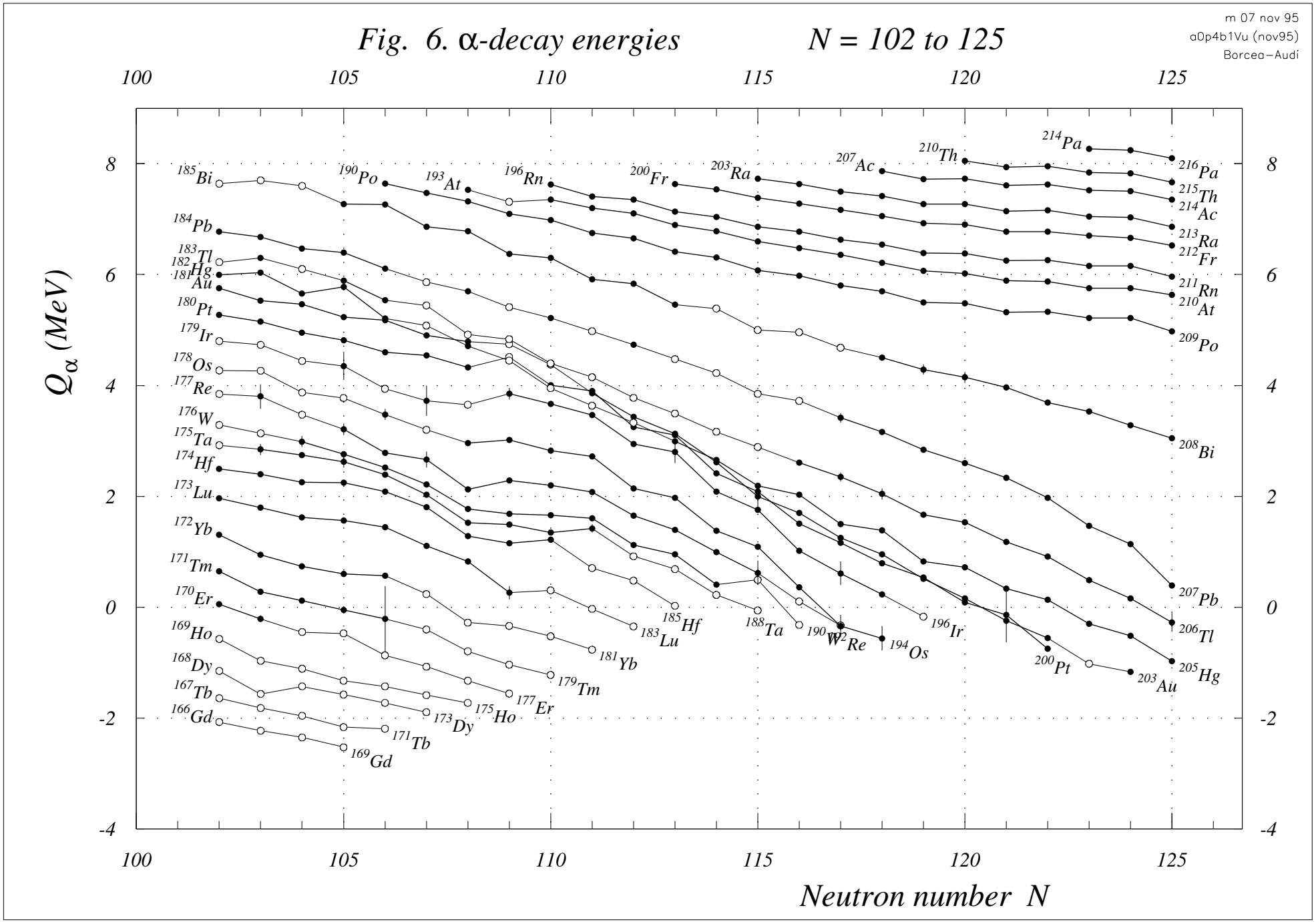
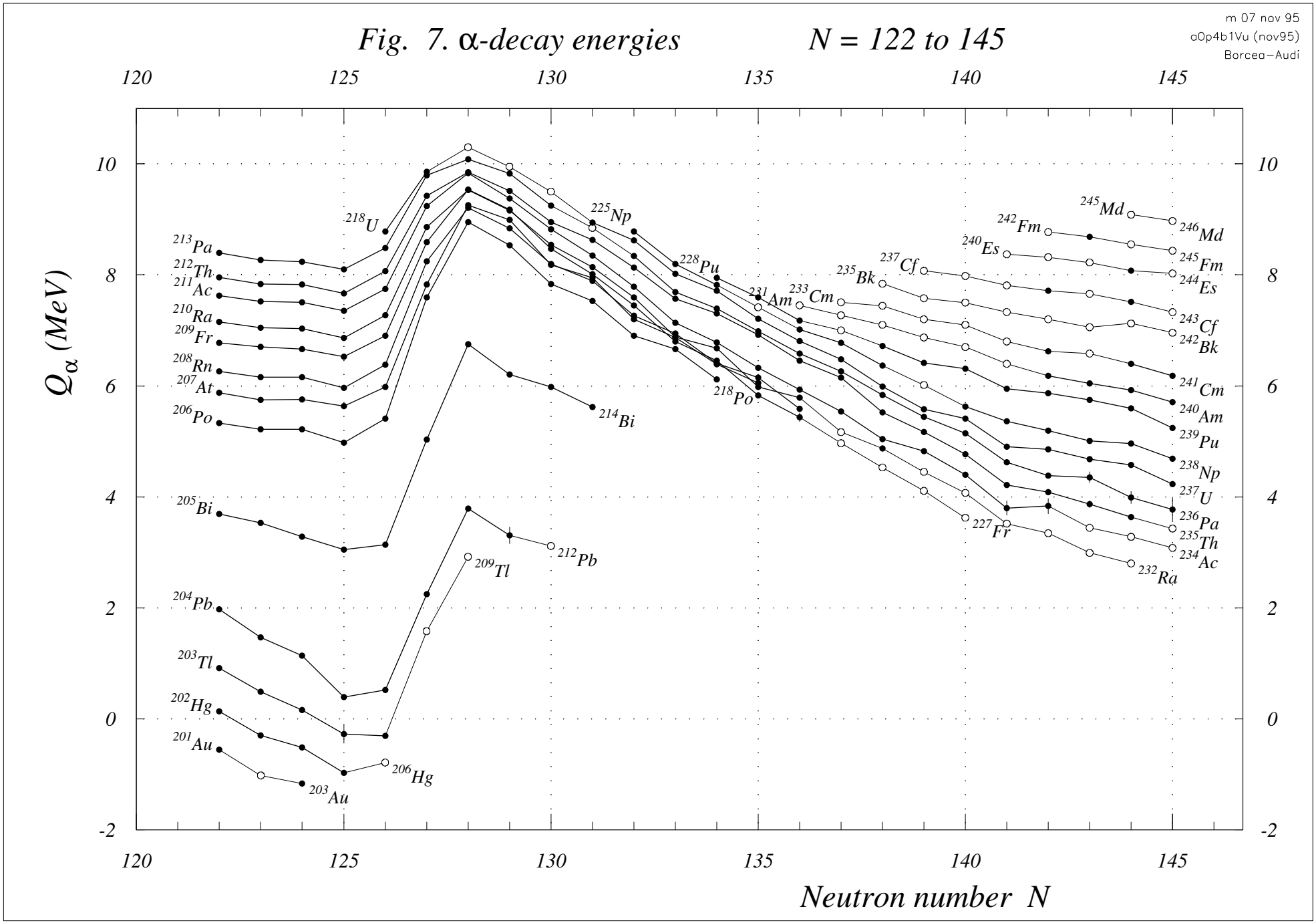
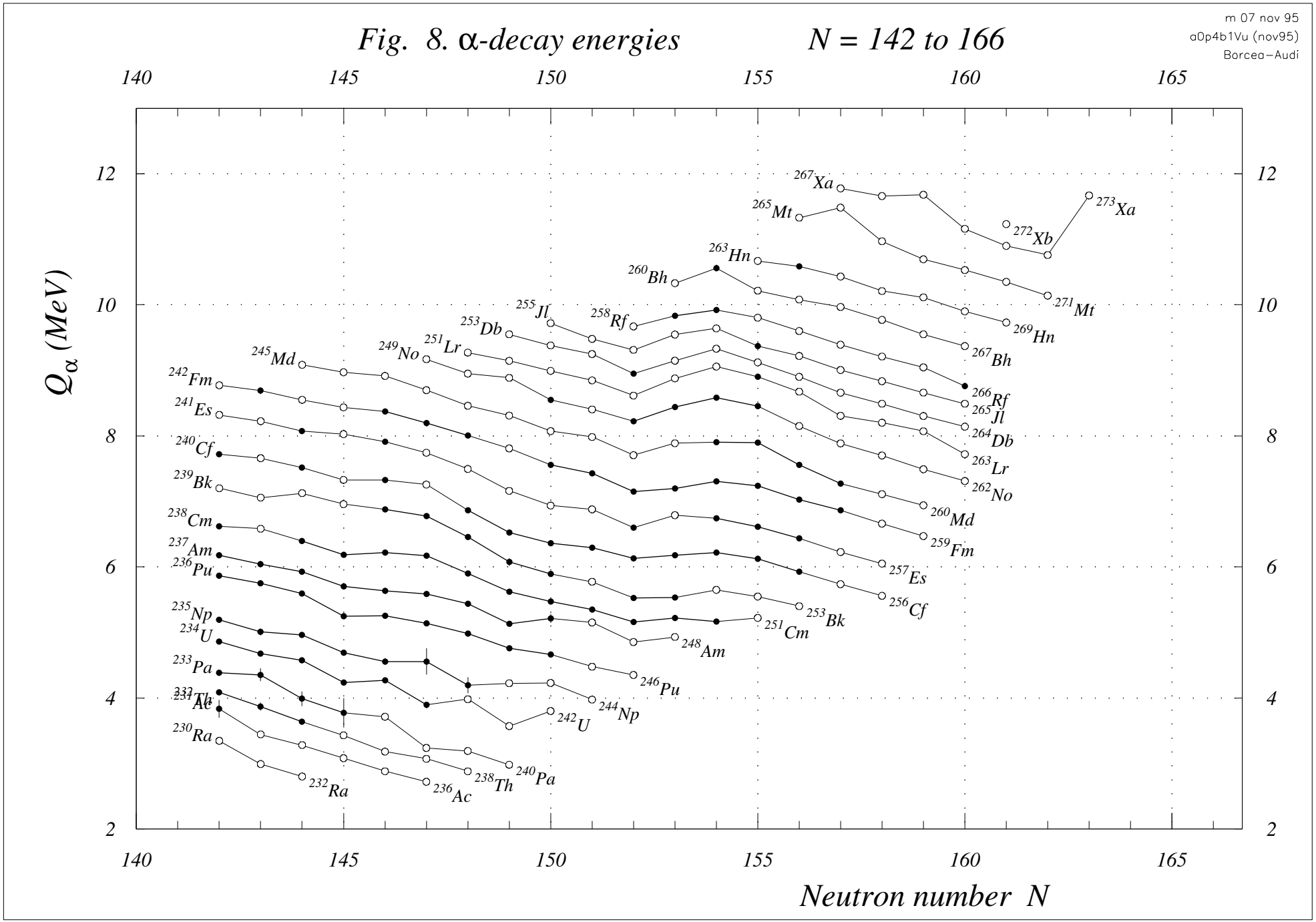
Q_α (MeV)
Neutron number N
80
85
90
95
100
105
10
8
6
4
2
0
-2
-4
-6
-8
-10
156Ta
158W
160Re
162Os
165Ir
168Pt
171Au
175Hg
177Tl
181Pb
185Bi
154Hf
152Yb
150Er
149Ho
148Dy
147Tb
146Gd
144Sm
142Nd
140Ce
139La
138Ba
137Cs
136Xe
135I
134Te
133Sb
134Sn
138Sb
143I
146Xe
148Cs
151Ba
155La
157Ce
159Pr
161Nd
163Pm
165Sm
167Eu
169Gd
170Tb
171Dy
172Ho
173Er
174Tm
175Yb
176Lu
177Hf
179W
180Re
181Os
182Ir
183Pt
184Au
185Hg
187Pb
188Bi


m 07 nov 95
a0p4b1Vu (nov95)
Borcea–Audi
Fig. 6. α-decay energies N = 102 to 125
Q_α (MeV)
Neutron number N
100
105
110
115
120
125
8
6
4
2
0
-2
-4
185Bi
184Pb
183Tl
182Hg
181Au
180Pt
179Ir
178Os
177Re
176W
175Ta
174Hf
173Lu
172Yb
171Tm
170Er
169Ho
168Dy
167Tb
166Gd
190Po
193At
196Rn
200Fr
203Ra
207Ac
210Th
214Pa
216Pa
215Th
214Ac
213Ra
212Fr
211Rn
210At
209Po
208Bi
207Pb
206Tl
205Hg
203Au
200Pt
196Ir
194Os
190W
188Ta
185Hf
183Lu
181Yb
179Tm
177Er
175Ho
173Dy
171Tb
169Gd
192Re


m 07 nov 95
a0p4b1Vu (nov95)
Borcea–Audi
Fig. 7. α-decay energies N = 122 to 145
Q_α (MeV)
Neutron number N
120
125
130
135
140
145
10
8
6
4
2
0
-2
^{213}Pa
^{212}Th
^{211}Ac
^{210}Ra
^{209}Fr
^{208}Rn
^{207}At
^{206}Po
^{205}Bi
^{204}Pb
^{203}Tl
^{202}Hg
^{201}Au
^{218}U
^{225}Np
^{228}Pu
^{231}Am
^{233}Cm
^{235}Bk
^{237}Cf
^{240}Es
^{242}Fm
^{245}Md
^{214}Bi
^{218}Po
^{212}Pb
^{209}Tl
^{206}Hg
^{203}Au
^{246}Md
^{245}Fm
^{244}Es
^{243}Cf
^{242}Bk
^{241}Cm
^{240}Am
^{239}Pu
^{238}Np
^{237}U
^{236}Pa
^{235}Th
^{234}Ac
^{232}Ra
^{227}Fr


m 07 nov 95
a0p4b1Vu (nov95)
Borcea–Audi
Fig. 8. α-decay energies N = 142 to 166
Q_α (MeV)
Neutron number N
140
145
150
155
160
165
2
4
6
8
10
12
^{267}Xa
^{265}Mt
^{273}Xa
^{272}Xb
^{271}Mt
^{269}Hn
^{267}Bh
^{266}Rf
^{265}Jl
^{264}Db
^{263}Lr
^{262}No
^{260}Md
^{259}Fm
^{257}Es
^{256}Cf
^{253}Bk
^{251}Cm
^{248}Am
^{246}Pu
^{244}Np
^{242}U
^{240}Pa
^{238}Th
^{236}Ac
^{232}Ra
^{230}Ra
^{233}Pa
^{234}U
^{235}Np
^{236}Pu
^{237}Am
^{238}Cm
^{239}Bk
^{240}Cf
^{241}Es
^{242}Fm
^{245}Md
^{249}No
^{251}Lr
^{253}Db
^{255}Jl
^{258}Rf
^{260}Bh
^{263}Hn