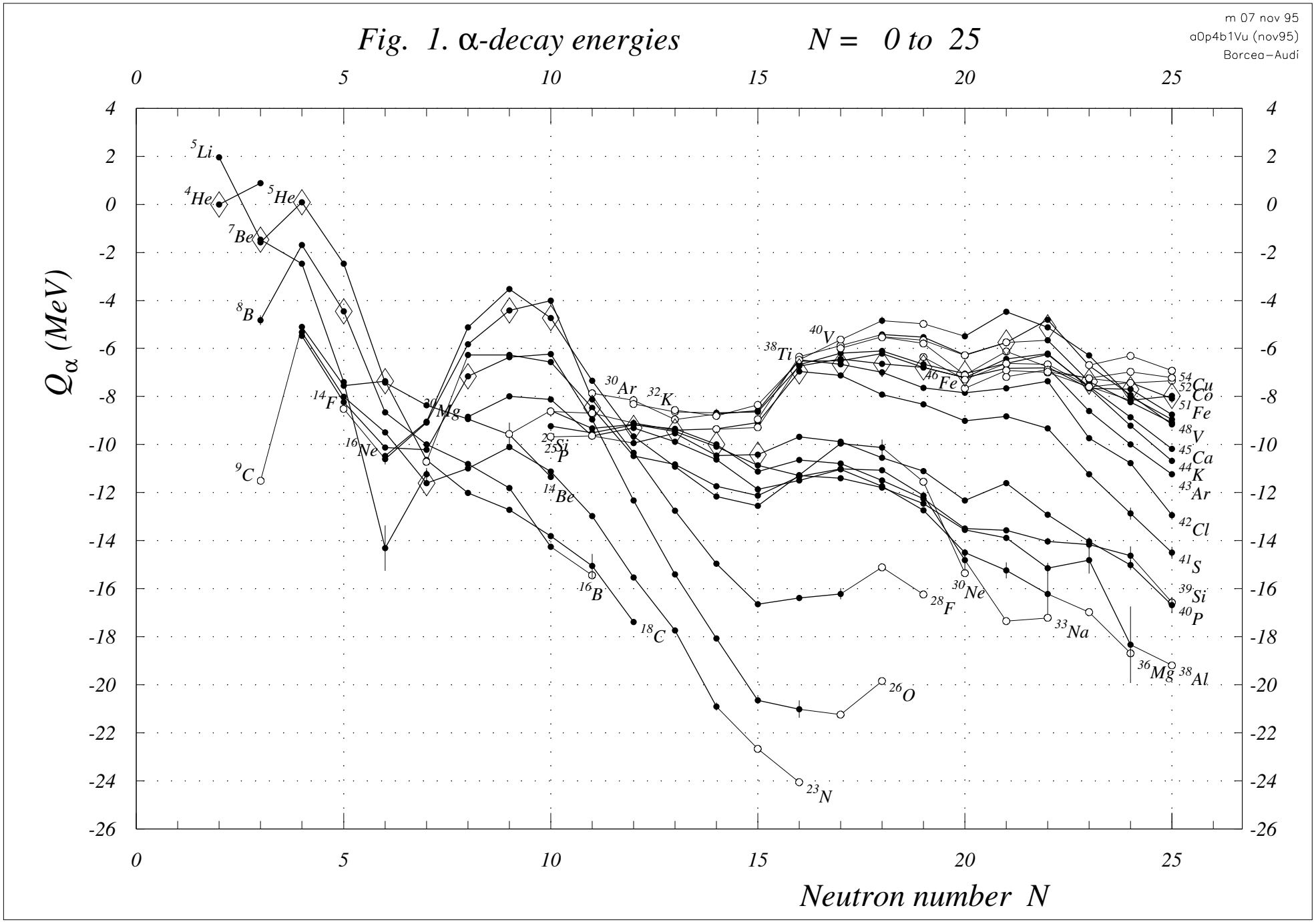


Fig. 1. α-decay energies N = 0 to 25
m 07 nov 95
a0p4b1Vu (nov95)
Borcea–Audi
Q_α (MeV)
Neutron number N
^{5}Li
^{4}He
^{5}He
^{7}Be
^{8}B
^{9}C
^{14}F
^{16}Ne
^{20}Mg
^{25}Si
^{25}P
^{30}Ar
^{32}K
^{14}Be
^{16}B
^{18}C
^{23}N
^{26}O
^{28}F
^{30}Ne
^{33}Na
^{36}Mg
^{38}Al
^{38}Ti
^{40}V
^{46}Fe
^{54}Cu
^{52}Co
^{51}Fe
^{48}V
^{45}Ca
^{44}K
^{43}Ar
^{42}Cl
^{41}S
^{39}Si
^{40}P

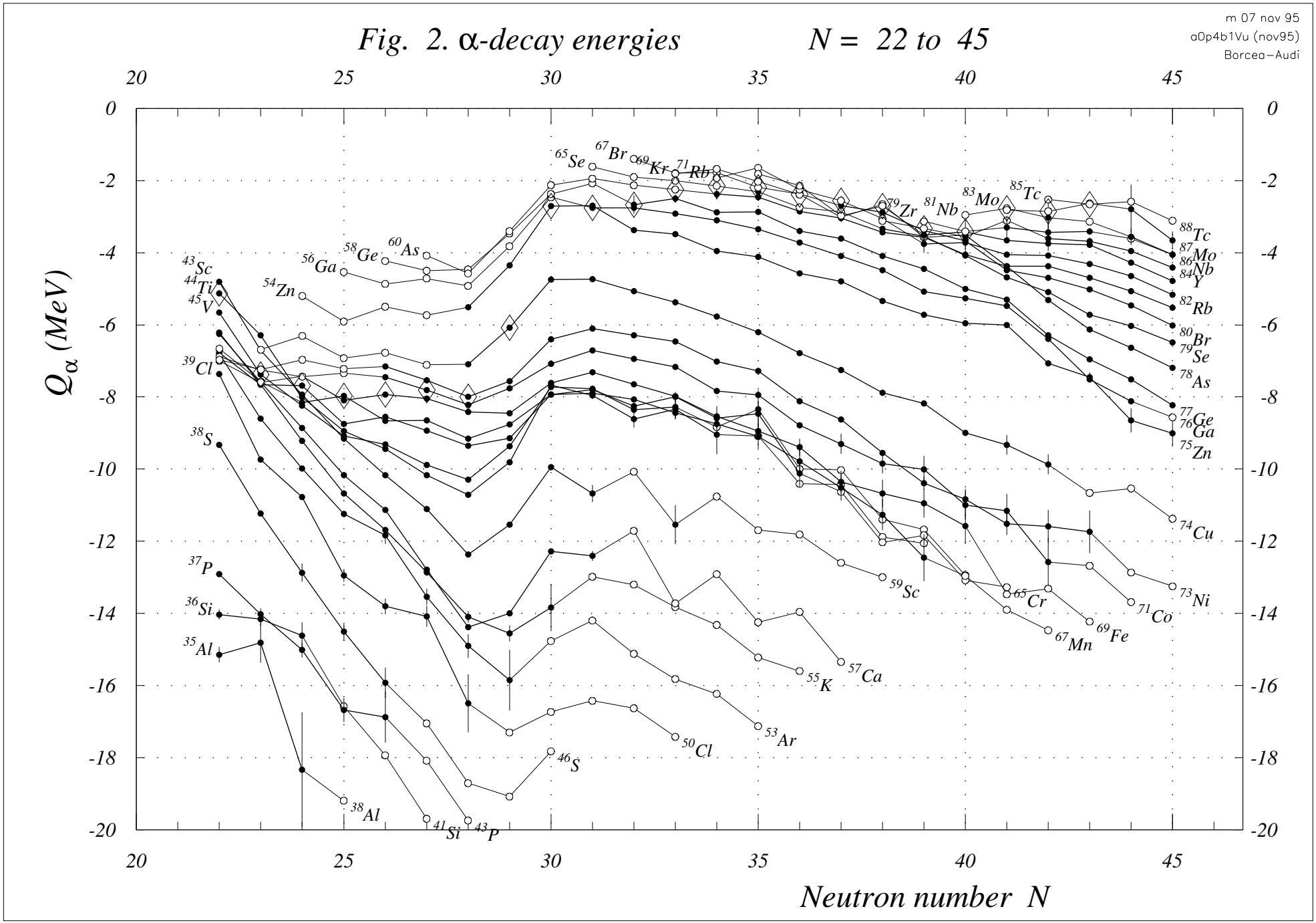
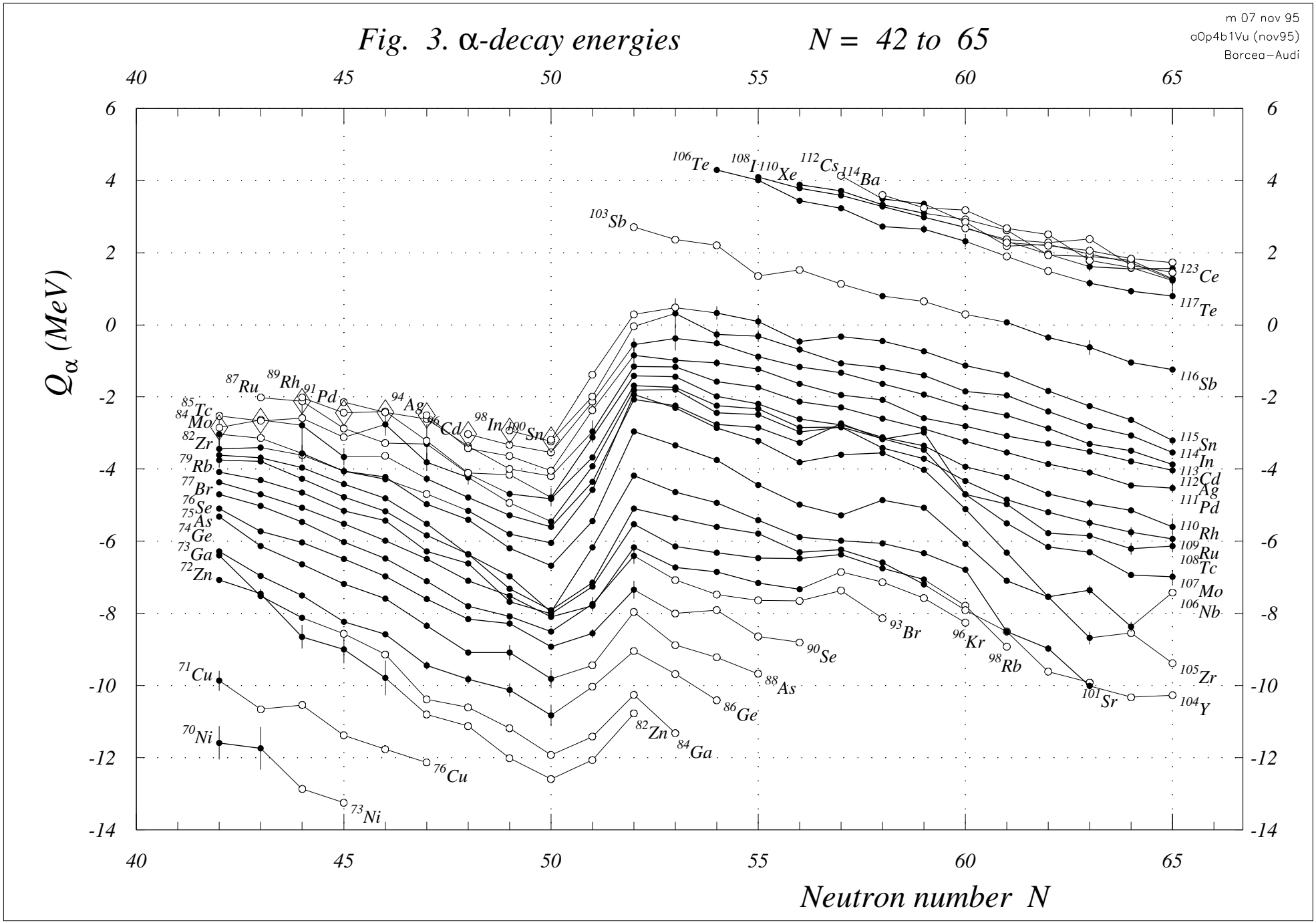


Fig. 2. α-decay energies N = 22 to 45
m 07 nov 95
a0p4b1Vu (nov95)
Borcea–Audi
Q_α (MeV)
Neutron number N
20
25
30
35
40
45
0
-2
-4
-6
-8
-10
-12
-14
-16
-18
-20
^{43}Sc
^{44}Ti
^{45}V
^{39}Cl
^{38}S
^{37}P
^{36}Si
^{35}Al
^{54}Zn
^{56}Ga
^{58}Ge
^{60}As
^{65}Se
^{67}Br
^{69}Kr
^{71}Rb
^{79}Zr
^{81}Nb
^{83}Mo
^{85}Tc
^{88}Tc
^{87}Mo
^{86}Nb
^{84}Y
^{82}Rb
^{80}Br
^{79}Se
^{78}As
^{77}Ge
^{76}Ga
^{75}Zn
^{74}Cu
^{73}Ni
^{71}Co
^{69}Fe
^{67}Mn
^{65}Cr
^{59}Sc
^{57}Ca
^{55}K
^{53}Ar
^{50}Cl
^{46}S
^{43}P
^{41}Si
^{38}Al


m 07 nov 95
a0p4b1Vu (nov95)
Borcea–Audi
Fig. 3. α-decay energies N = 42 to 65
Q_α (MeV)
Neutron number N
40
45
50
55
60
65
6
4
2
0
-2
-4
-6
-8
-10
-12
-14
^{106}Te
^{108}I
^{110}Xe
^{112}Cs
^{114}Ba
^{103}Sb
^{123}Ce
^{117}Te
^{116}Sb
^{115}Sn
^{114}In
^{113}Cd
^{112}Ag
^{111}Pd
^{110}Rh
^{109}Ru
^{108}Tc
^{107}Mo
^{106}Nb
^{105}Zr
^{104}Y
^{101}Sr
^{98}Rb
^{96}Kr
^{93}Br
^{90}Se
^{88}As
^{86}Ge
^{84}Ga
^{82}Zn
^{87}Ru
^{89}Rh
^{91}Pd
^{94}Ag
^{96}Cd
^{98}In
^{100}Sn
^{85}Tc
^{84}Mo
^{82}Zr
^{79}Rb
^{77}Br
^{76}Se
^{75}As
^{74}Ge
^{73}Ga
^{72}Zn
^{71}Cu
^{70}Ni
^{76}Cu
^{73}Ni

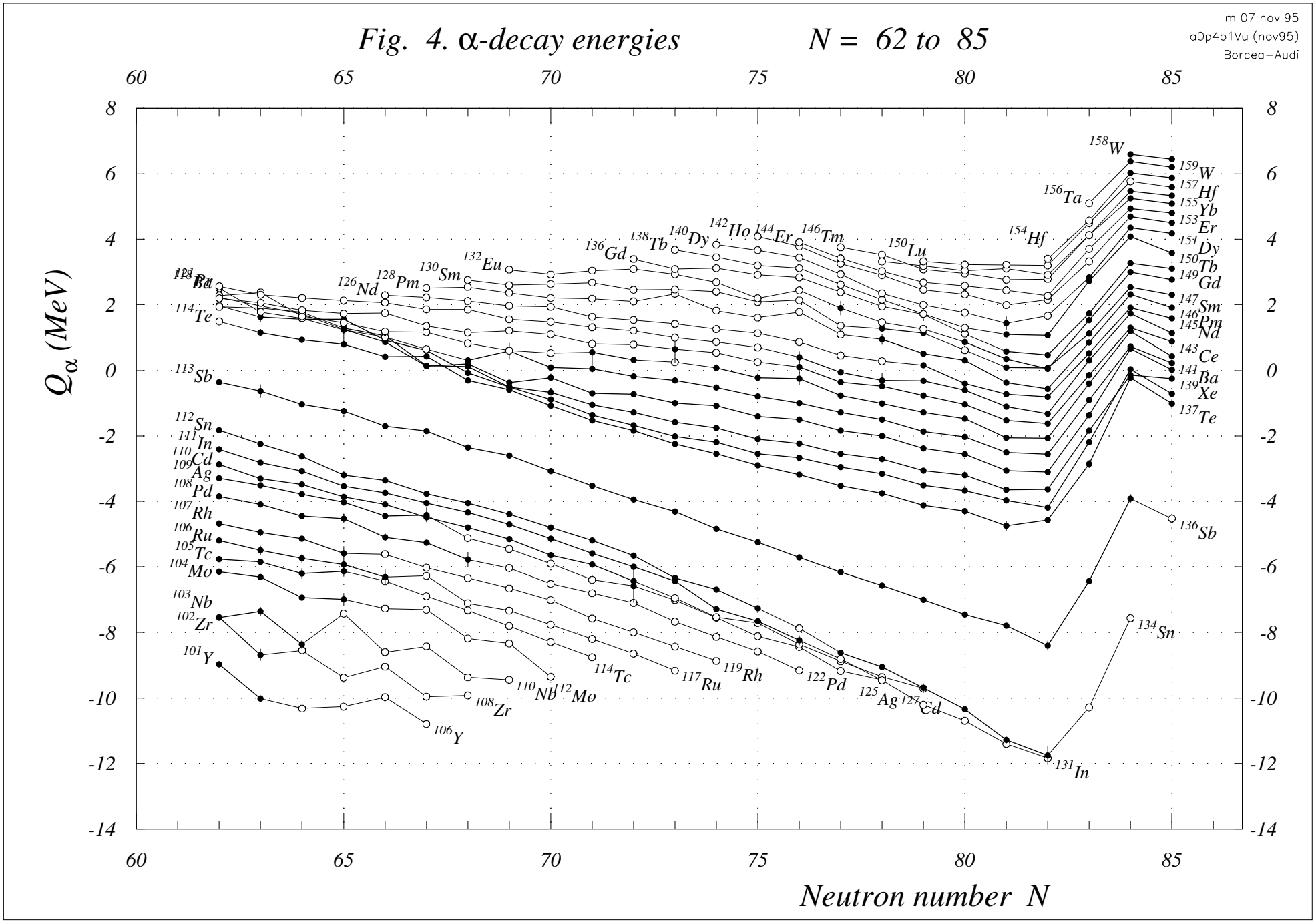


Fig. 4. α-decay energies N = 62 to 85
m 07 nov 95
a0p4b1Vu (nov95)
Borcea–Audi
Q_α (MeV)
Neutron number N
^{158}W
^{159}W
^{157}Hf
^{155}Yb
^{153}Er
^{151}Dy
^{150}Tb
^{149}Gd
^{147}Sm
^{146}Pm
^{145}Nd
^{143}Ce
^{141}Ba
^{139}Xe
^{137}Te
^{156}Ta
^{154}Hf
^{150}Lu
^{146}Tm
^{144}Er
^{142}Ho
^{140}Dy
^{138}Tb
^{136}Gd
^{132}Eu
^{130}Sm
^{128}Pm
^{126}Nd
^{124}Ba
^{122}Ce
^{114}Te
^{113}Sb
^{112}Sn
^{111}In
^{110}Cd
^{109}Ag
^{108}Pd
^{107}Rh
^{106}Ru
^{105}Tc
^{104}Mo
^{103}Nb
^{102}Zr
^{101}Y
^{106}Y
^{108}Zr
^{110}Nb
^{112}Mo
^{114}Tc
^{117}Ru
^{119}Rh
^{122}Pd
^{125}Ag
^{127}Cd
^{131}In
^{136}Sb
^{134}Sn