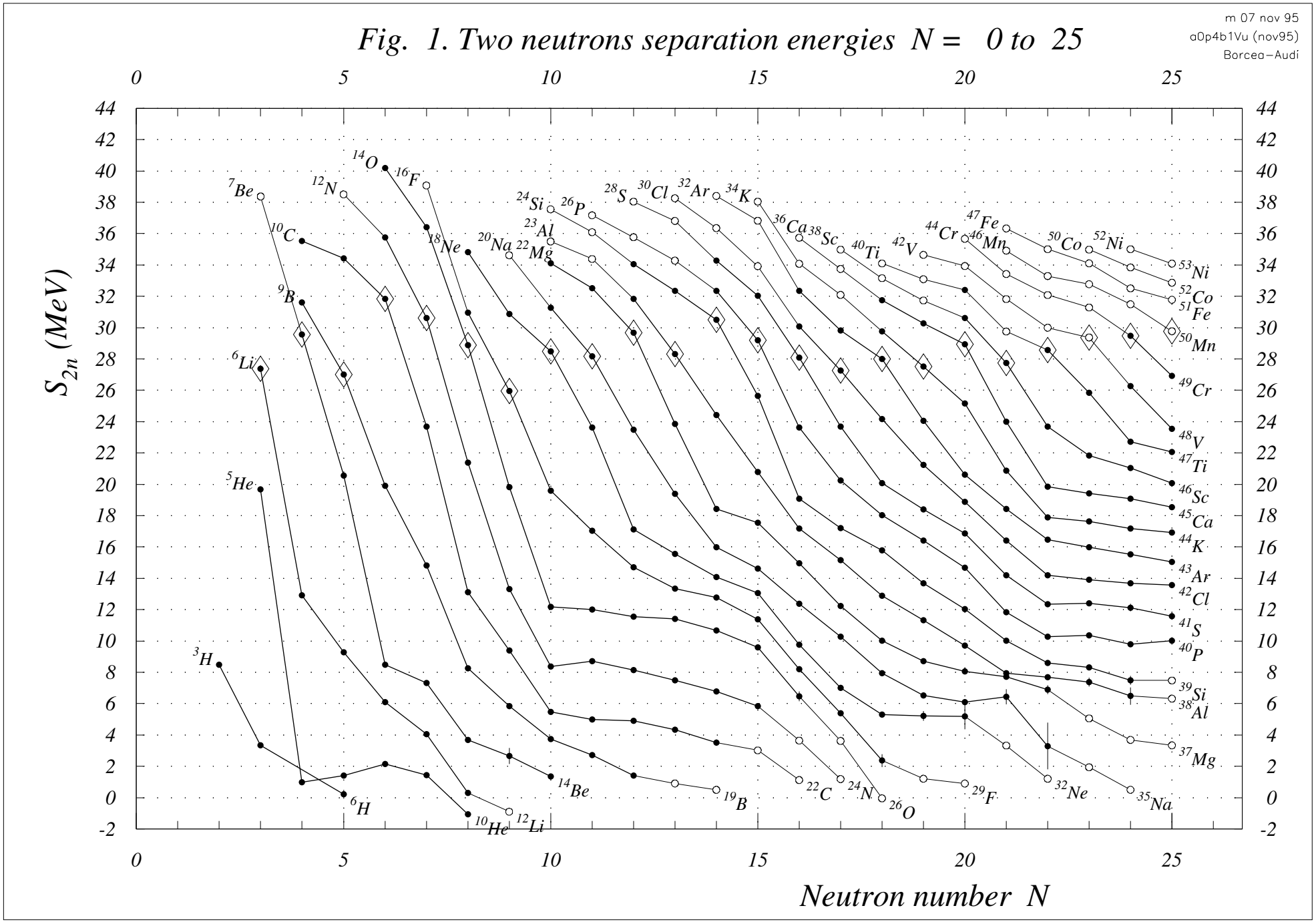
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Fig. 1. Two neutrons separation energies N = 0 to 25
S_{2n} (MeV)
Neutron number N
^{3}H
^{5}He
^{6}Li
^{7}Be
^{9}B
^{10}C
^{12}N
^{14}O
^{16}F
^{18}Ne
^{20}Na
^{22}Mg
^{23}Al
^{24}Si
^{26}P
^{28}S
^{30}Cl
^{32}Ar
^{34}K
^{36}Ca
^{38}Sc
^{40}Ti
^{42}V
^{44}Cr
^{46}Mn
^{47}Fe
^{50}Co
^{52}Ni
^{53}Ni
^{52}Co
^{51}Fe
^{50}Mn
^{49}Cr
^{48}V
^{47}Ti
^{46}Sc
^{45}Ca
^{44}K
^{43}Ar
^{42}Cl
^{41}S
^{40}P
^{39}Si
^{38}Al
^{37}Mg
^{35}Na
^{32}Ne
^{29}F
^{26}O
^{24}N
^{22}C
^{19}B
^{14}Be
^{12}Li
^{10}He
^{6}H

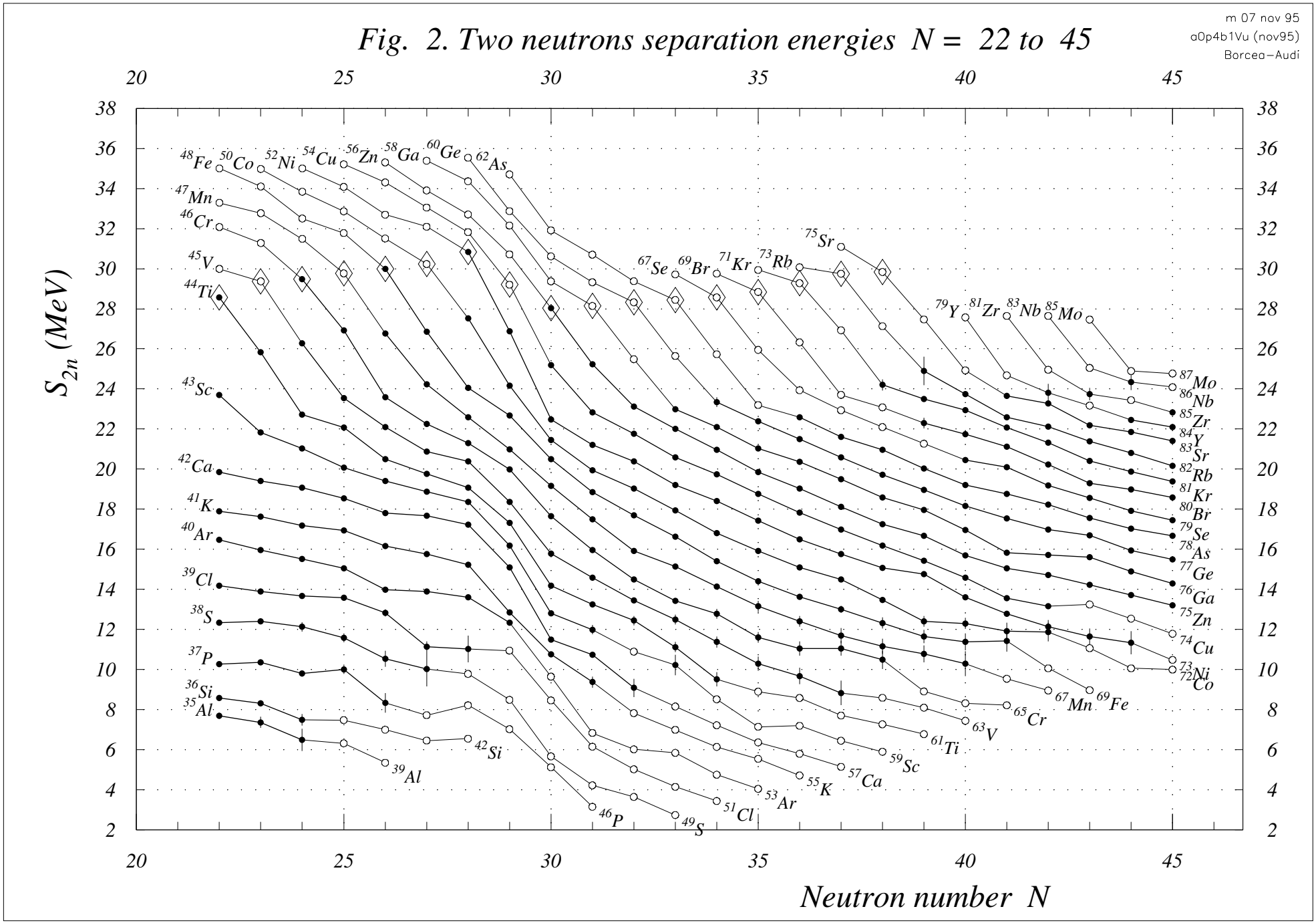
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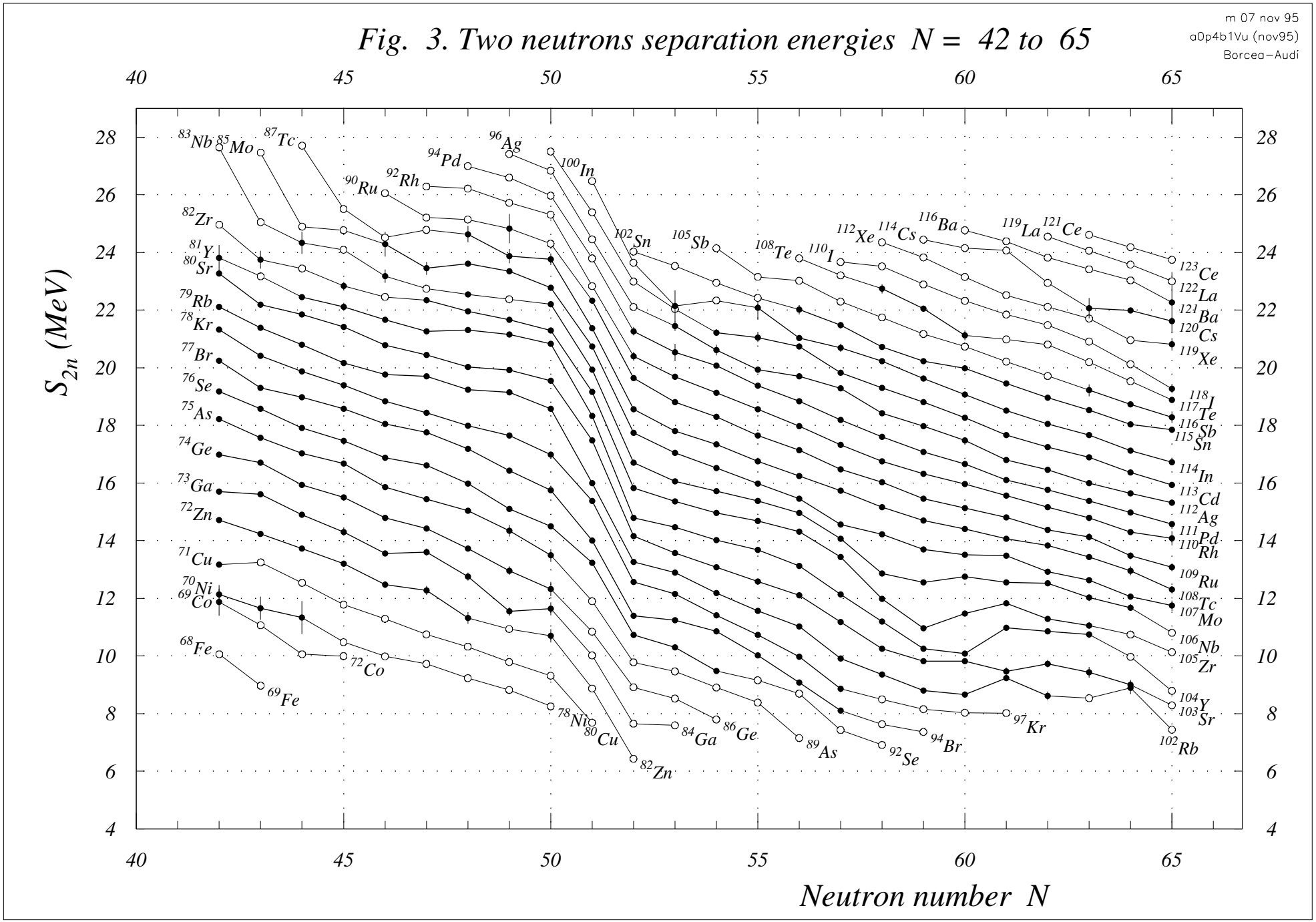
Fig. 2. Two neutrons separation energies N = 22 to 45
S_{2n} (MeV)
Neutron number N
20
25
30
35
40
45
2
4
6
8
10
12
14
16
18
20
22
24
26
28
30
32
34
36
38
^{48}Fe
^{50}Co
^{52}Ni
^{54}Cu
^{56}Zn
^{58}Ga
^{60}Ge
^{62}As
^{47}Mn
^{46}Cr
^{45}V
^{44}Ti
^{43}Sc
^{42}Ca
^{41}K
^{40}Ar
^{39}Cl
^{38}S
^{37}P
^{36}Si
^{35}Al
^{39}Al
^{42}Si
^{46}P
^{49}S
^{51}Cl
^{53}Ar
^{55}K
^{57}Ca
^{59}Sc
^{61}Ti
^{63}V
^{65}Cr
^{67}Mn
^{69}Fe
^{72}Co
^{73}Ni
^{74}Cu
^{75}Zn
^{76}Ga
^{77}Ge
^{78}As
^{79}Se
^{80}Br
^{81}Kr
^{82}Rb
^{83}Sr
^{84}Y
^{85}Zr
^{86}Nb
^{87}Mo
^{75}Sr
^{73}Rb
^{71}Kr
^{69}Br
^{67}Se
^{79}Y
^{81}Zr
^{83}Nb
^{85}Mo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Borcea–Audi
Fig. 3. Two neutrons separation energies N = 42 to 65
S_{2n} (MeV)
Neutron number N
40
45
50
55
60
65
4
6
8
10
12
14
16
18
20
22
24
26
28
^{83}Nb
^{85}Mo
^{87}Tc
^{90}Ru
^{92}Rh
^{94}Pd
^{96}Ag
^{100}In
^{102}Sn
^{105}Sb
^{108}Te
^{110}I
^{112}Xe
^{114}Cs
^{116}Ba
^{119}La
^{121}Ce
^{123}Ce
^{122}La
^{121}Ba
^{120}Cs
^{119}Xe
^{118}I
^{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
^{103}Sr
^{102}Rb
^{97}Kr
^{94}Br
^{92}Se
^{89}As
^{86}Ge
^{84}Ga
^{82}Zn
^{80}Cu
^{78}Ni
^{72}Co
^{69}Fe
^{82}Zr
^{81}Y
^{80}Sr
^{79}Rb
^{78}Kr
^{77}Br
^{76}Se
^{75}As
^{74}Ge
^{73}Ga
^{72}Zn
^{71}Cu
^{70}Ni
^{69}Co
^{68}Fe

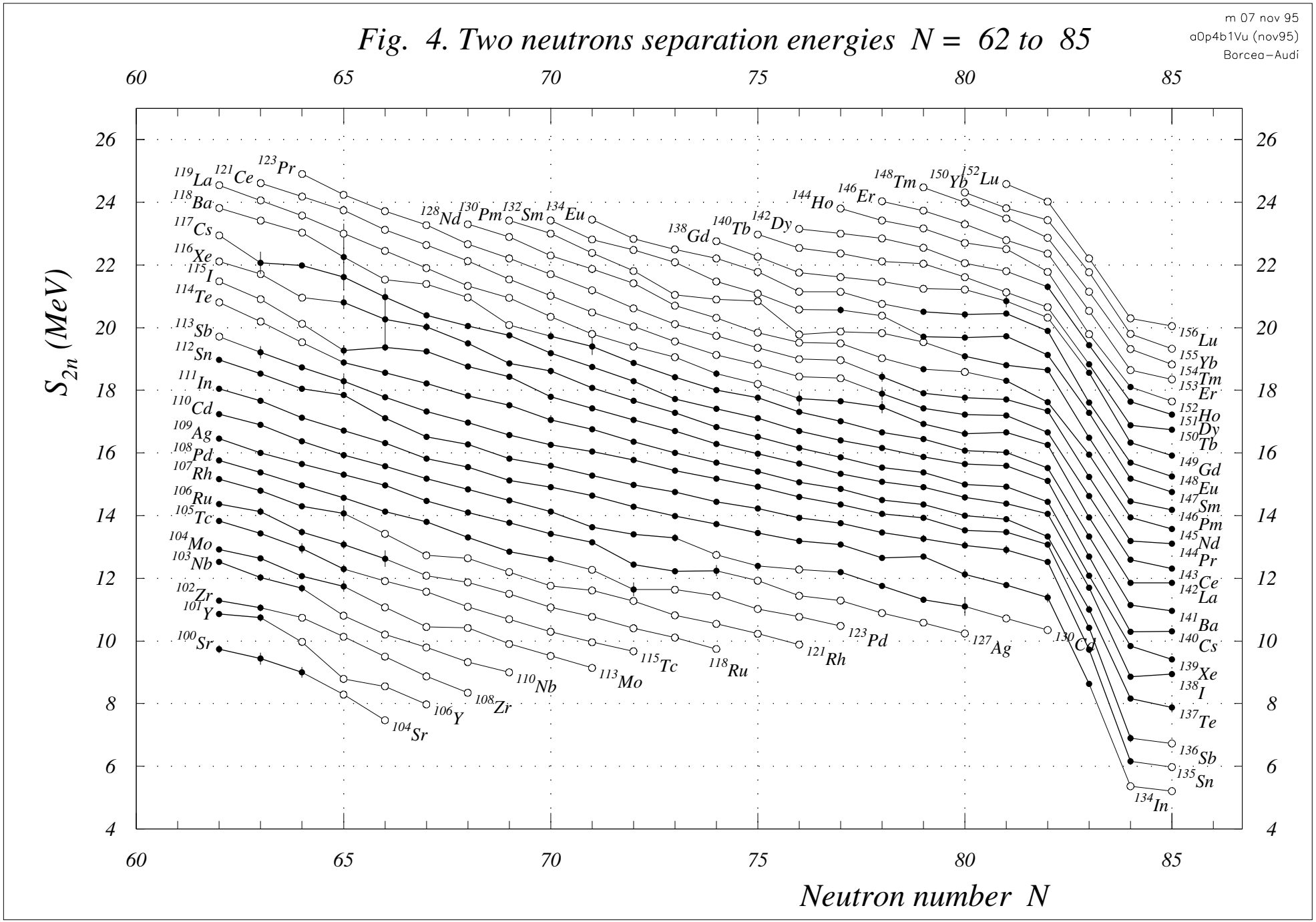
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Fig. 4. Two neutrons separation energies N = 62 to 85
S_{2n} (MeV)
Neutron number N
60
65
70
75
80
85
4
6
8
10
12
14
16
18
20
22
24
26
^{119}La
^{121}Ce
^{123}Pr
^{118}Ba
^{117}Cs
^{116}Xe
^{115}I
^{114}Te
^{113}Sb
^{112}Sn
^{111}In
^{110}Cd
^{109}Ag
^{108}Pd
^{107}Rh
^{106}Ru
^{105}Tc
^{104}Mo
^{103}Nb
^{102}Zr
^{101}Y
^{100}Sr
^{128}Nd
^{130}Pm
^{132}Sm
^{134}Eu
^{138}Gd
^{140}Tb
^{142}Dy
^{144}Ho
^{146}Er
^{148}Tm
^{150}Yb
^{152}Lu
^{104}Sr
^{106}Y
^{108}Zr
^{110}Nb
^{113}Mo
^{115}Tc
^{118}Ru
^{121}Rh
^{123}Pd
^{127}Ag
^{130}Cd
^{134}In
^{135}Sn
^{136}Sb
^{137}Te
^{138}I
^{139}Xe
^{140}Cs
^{141}Ba
^{142}La
^{143}Ce
^{144}Pr
^{145}Nd
^{146}Pm
^{147}Sm
^{148}Eu
^{149}Gd
^{150}Tb
^{151}Dy
^{152}Ho
^{153}Er
^{154}Tm
^{155}Yb
^{156}Lu