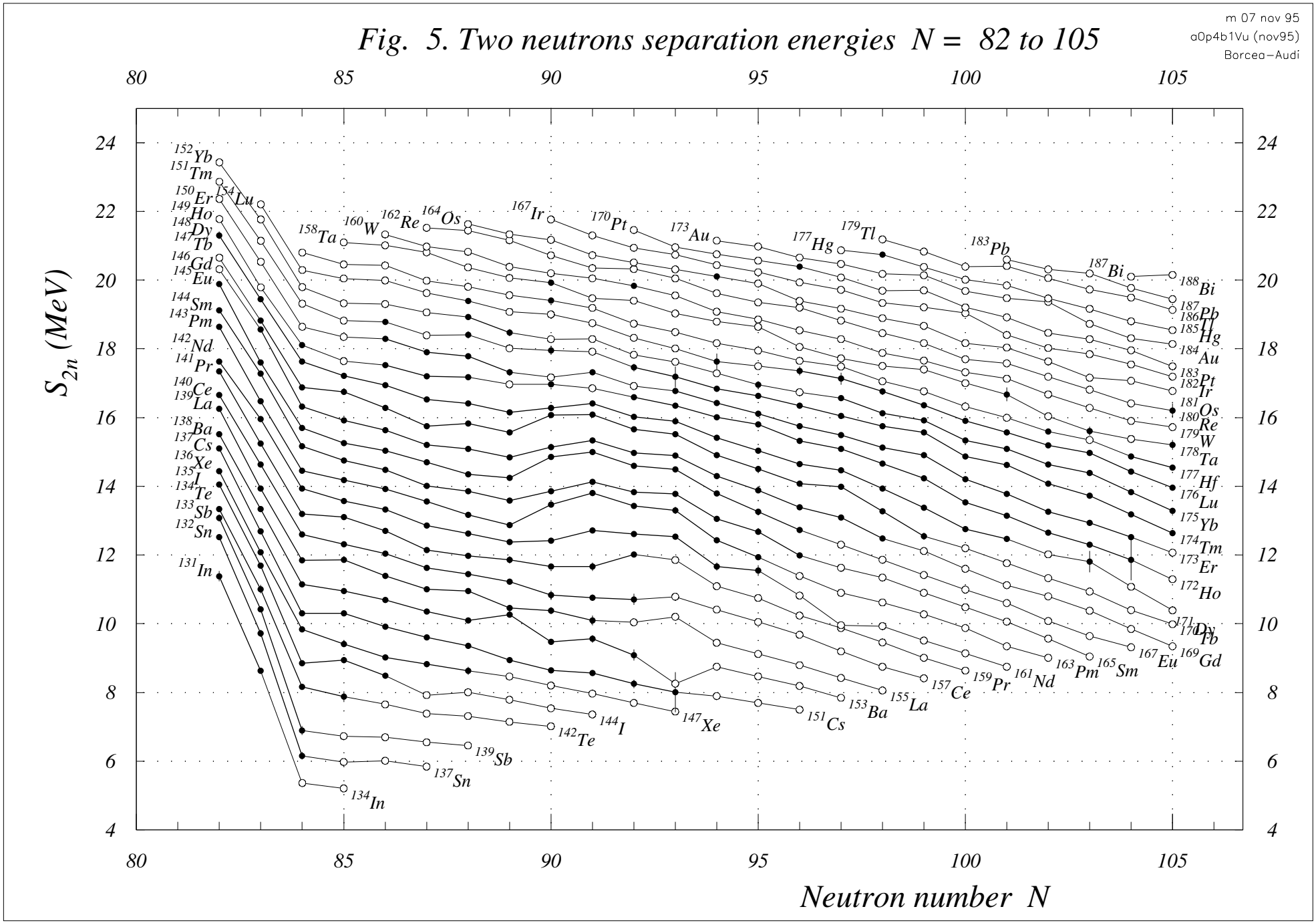
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Fig. 5. Two neutrons separation energies N = 82 to 105
S_{2n} (MeV)
Neutron number N
80
85
90
95
100
105
4
6
8
10
12
14
16
18
20
22
24
^{152}Yb
^{151}Tm
^{150}Er
^{149}Ho
^{148}Dy
^{147}Tb
^{146}Gd
^{145}Eu
^{144}Sm
^{143}Pm
^{142}Nd
^{141}Pr
^{140}Ce
^{139}La
^{138}Ba
^{137}Cs
^{136}Xe
^{135}I
^{134}Te
^{133}Sb
^{132}Sn
^{131}In
^{154}Lu
^{158}Ta
^{160}W
^{162}Re
^{164}Os
^{167}Ir
^{170}Pt
^{173}Au
^{177}Hg
^{179}Tl
^{183}Pb
^{187}Bi
^{188}Bi
^{187}Pb
^{186}Tl
^{185}Hg
^{184}Au
^{183}Pt
^{182}Ir
^{181}Os
^{180}Re
^{179}W
^{178}Ta
^{177}Hf
^{176}Lu
^{175}Yb
^{174}Tm
^{173}Er
^{172}Ho
^{171}Dy
^{170}Tb
^{169}Gd
^{167}Eu
^{165}Sm
^{163}Pm
^{161}Nd
^{159}Pr
^{157}Ce
^{155}La
^{153}Ba
^{151}Cs
^{147}Xe
^{144}I
^{142}Te
^{139}Sb
^{137}Sn
^{134}In

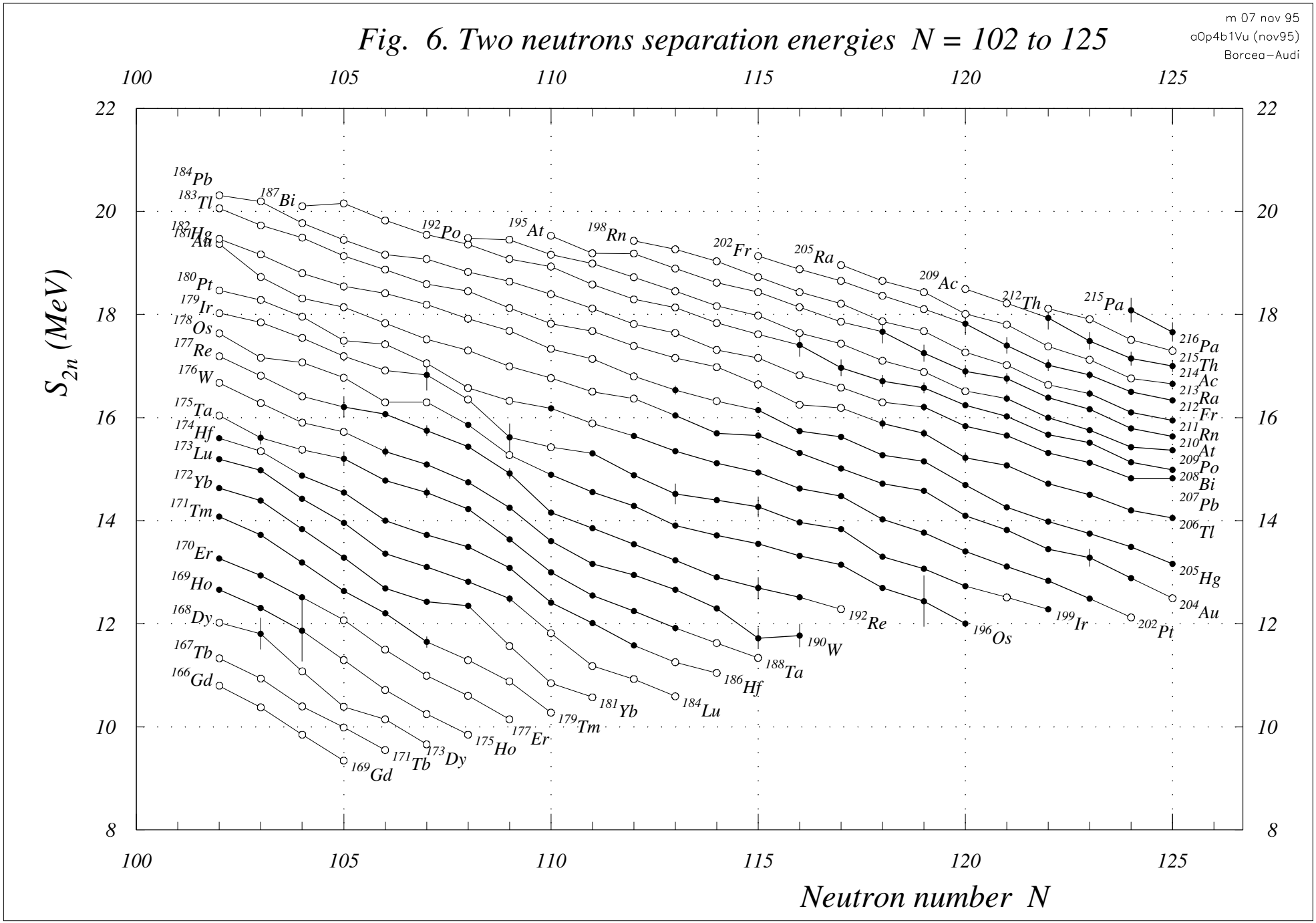
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Fig. 6. Two neutrons separation energies N = 102 to 125
S_{2n} (MeV)
Neutron number N
100
105
110
115
120
125
8
10
12
14
16
18
20
22
^{184}Pb
^{183}Tl
^{182}Hg
^{181}Au
^{180}Pt
^{179}Ir
^{178}Os
^{177}Re
^{176}W
^{175}Ta
^{174}Hf
^{173}Lu
^{172}Yb
^{171}Tm
^{170}Er
^{169}Ho
^{168}Dy
^{167}Tb
^{166}Gd
^{187}Bi
^{192}Po
^{195}At
^{198}Rn
^{202}Fr
^{205}Ra
^{209}Ac
^{212}Th
^{215}Pa
^{216}Pa
^{215}Th
^{214}Ac
^{213}Ra
^{212}Fr
^{211}Rn
^{210}At
^{209}Po
^{208}Bi
^{207}Pb
^{206}Tl
^{205}Hg
^{204}Au
^{202}Pt
^{199}Ir
^{196}Os
^{192}Re
^{190}W
^{188}Ta
^{186}Hf
^{184}Lu
^{181}Yb
^{179}Tm
^{177}Er
^{175}Ho
^{173}Dy
^{171}Tb
^{169}Gd

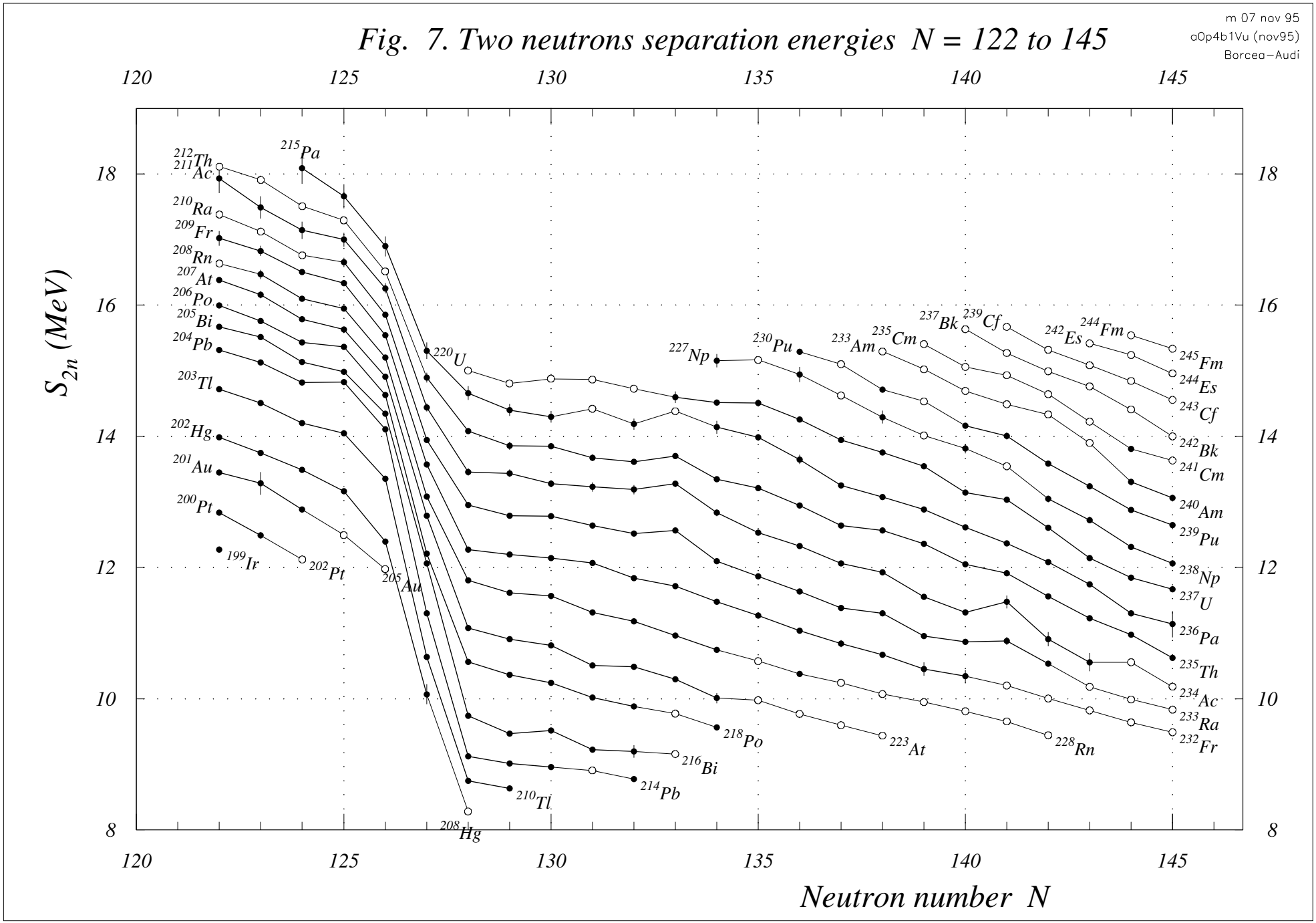
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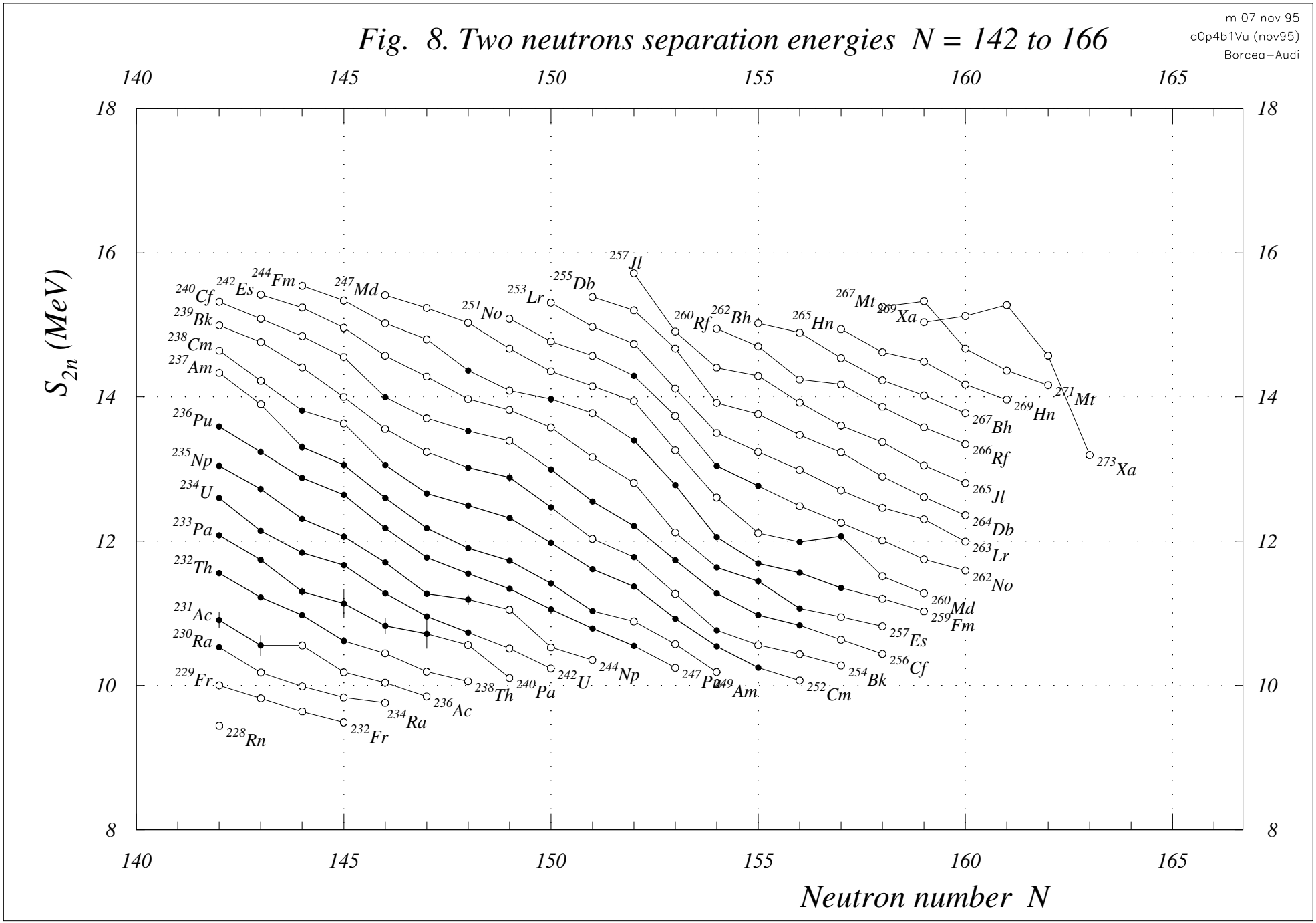
Fig. 7. Two neutrons separation energies N = 122 to 145
S_{2n} (MeV)
Neutron number N
120
125
130
135
140
145
8
10
12
14
16
18
^{212}Th
^{211}Ac
^{210}Ra
^{209}Fr
^{208}Rn
^{207}At
^{206}Po
^{205}Bi
^{204}Pb
^{203}Tl
^{202}Hg
^{201}Au
^{200}Pt
^{199}Ir
^{202}Pt
^{205}Au
^{215}Pa
^{220}U
^{208}Hg
^{210}Tl
^{214}Pb
^{216}Bi
^{218}Po
^{223}At
^{228}Rn
^{227}Np
^{230}Pu
^{233}Am
^{235}Cm
^{237}Bk
^{239}Cf
^{242}Es
^{244}Fm
^{245}Fm
^{244}Es
^{243}Cf
^{242}Bk
^{241}Cm
^{240}Am
^{239}Pu
^{238}Np
^{237}U
^{236}Pa
^{235}Th
^{234}Ac
^{233}Ra
^{232}Fr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a0p4b1Vu (nov95)
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Fig. 8. Two neutrons separation energies N = 142 to 166
S_{2n} (MeV)
Neutron number N
140
145
150
155
160
165
8
10
12
14
16
18
^{228}Rn
^{229}Fr
^{230}Ra
^{231}Ac
^{232}Th
^{233}Pa
^{234}U
^{235}Np
^{236}Pu
^{237}Am
^{238}Cm
^{239}Bk
^{240}Cf
^{242}Es
^{244}Fm
^{247}Md
^{251}No
^{253}Lr
^{255}Db
^{257}Jl
^{260}Rf
^{262}Bh
^{265}Hn
^{267}Mt
^{269}Xa
^{271}Mt
^{273}Xa
^{232}Fr
^{234}Ra
^{236}Ac
^{238}Th
^{240}Pa
^{242}U
^{244}Np
^{247}Pu
^{249}Am
^{252}Cm
^{254}Bk
^{256}Cf
^{257}Es
^{259}Fm
^{260}Md
^{262}No
^{263}Lr
^{264}Db
^{265}Jl
^{266}Rf
^{267}Bh
^{269}Hn