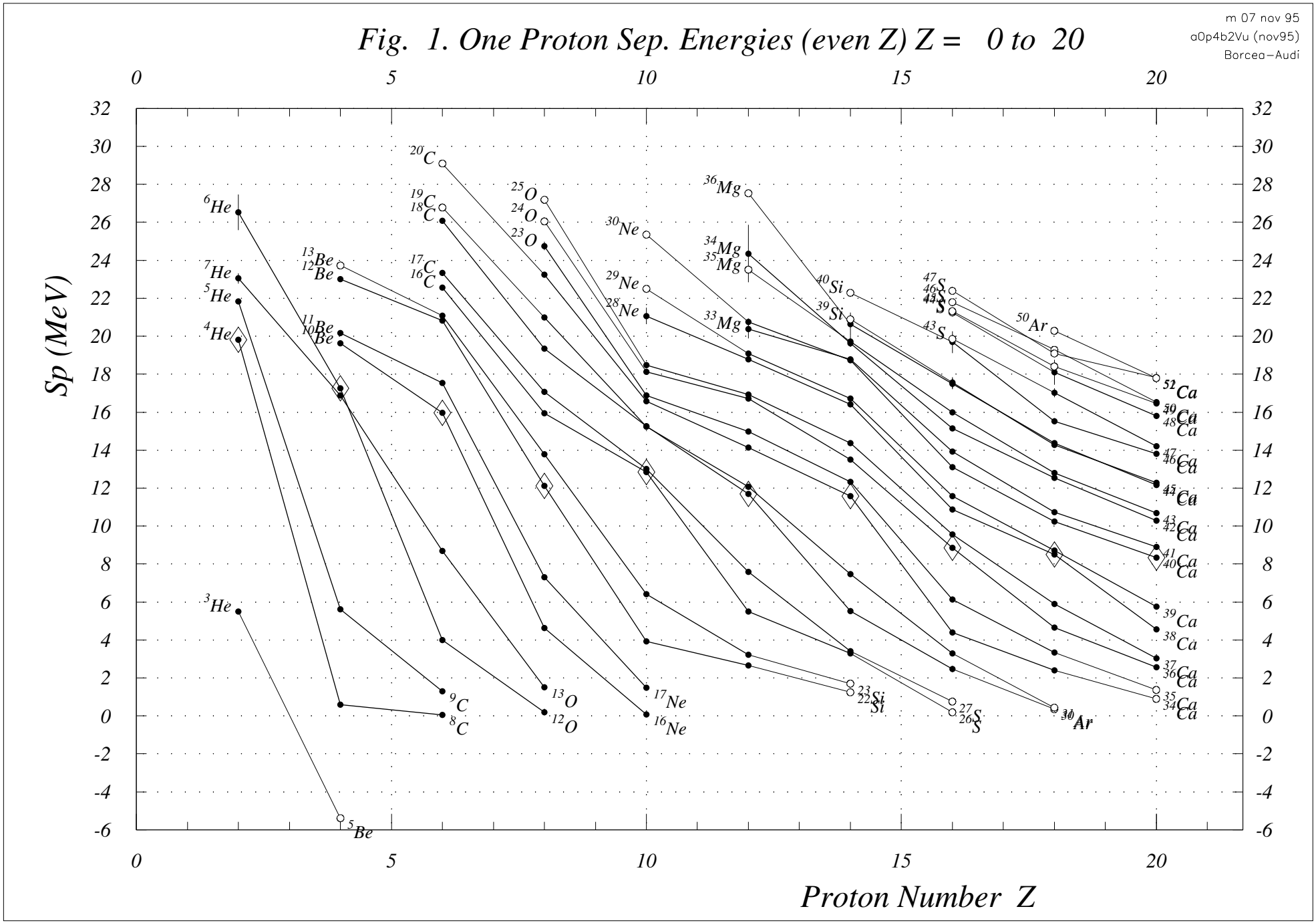
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Fig. 1. One Proton Sep. Energies (even Z) Z = 0 to 20
Sp (MeV)
Proton Number Z
0
5
10
15
20
32
30
28
26
24
22
20
18
16
14
12
10
8
6
4
2
0
-2
-4
-6
6He
7He
5He
4He
3He
5Be
13Be
12Be
11Be
10Be
20C
19C
18C
17C
16C
9C
8C
25O
24O
23O
13O
12O
30Ne
29Ne
28Ne
17Ne
16Ne
36Mg
34Mg
35Mg
33Mg
23Si
22Si
40Si
39Si
27S
26S
47S
46S
43S
50Ar
30Ar
51Ca
50Ca
48Ca
47Ca
46Ca
45Ca
43Ca
42Ca
41Ca
40Ca
39Ca
38Ca
37Ca
36Ca
35Ca
34Ca

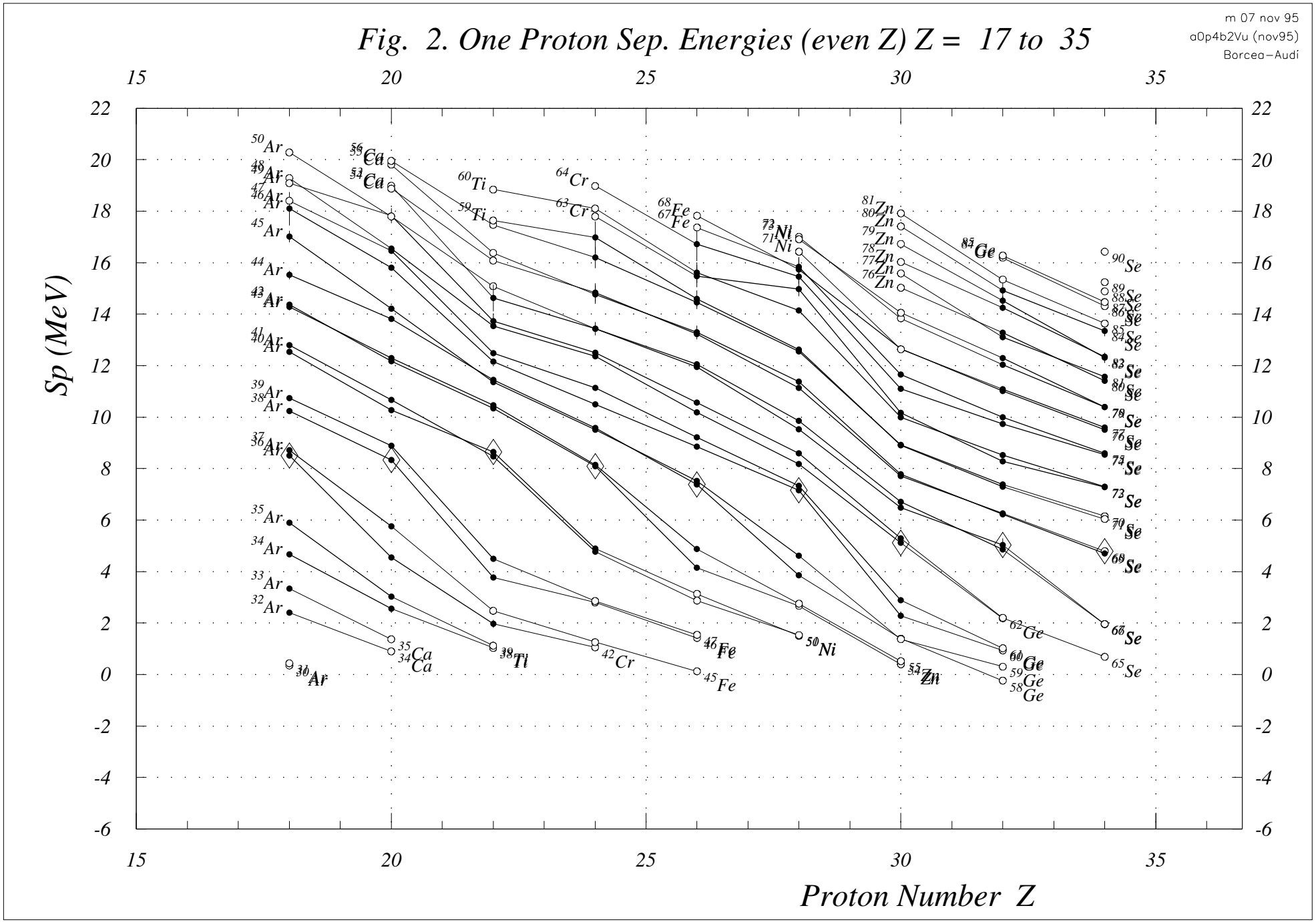
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Fig. 2. One Proton Sep. Energies (even Z) Z = 17 to 35
Sp (MeV)
Proton Number Z
15
20
25
30
35
22
20
18
16
14
12
10
8
6
4
2
0
-2
-4
-6
50Ar
48Ar
47Ar
46Ar
45Ar
44Ar
43Ar
41Ar
40Ar
39Ar
38Ar
37Ar
36Ar
35Ar
34Ar
33Ar
32Ar
31Ar
30Ar
56Ca
55Ca
54Ca
53Ca
52Ca
51Ca
50Ca
49Ca
48Ca
47Ca
46Ca
45Ca
44Ca
43Ca
42Ca
41Ca
40Ca
39Ca
38Ca
37Ca
36Ca
35Ca
34Ca
60Ti
59Ti
58Ti
57Ti
56Ti
55Ti
54Ti
53Ti
52Ti
51Ti
50Ti
49Ti
48Ti
47Ti
46Ti
45Ti
44Ti
43Ti
42Ti
41Ti
40Ti
39Ti
38Ti
64Cr
63Cr
62Cr
61Cr
60Cr
59Cr
58Cr
57Cr
56Cr
55Cr
54Cr
53Cr
52Cr
51Cr
50Cr
49Cr
48Cr
47Cr
46Cr
45Cr
44Cr
43Cr
42Cr
68Fe
67Fe
66Fe
65Fe
64Fe
63Fe
62Fe
61Fe
60Fe
59Fe
58Fe
57Fe
56Fe
55Fe
54Fe
53Fe
52Fe
51Fe
50Fe
49Fe
48Fe
47Fe
46Fe
45Fe
72Ni
71Ni
70Ni
69Ni
68Ni
67Ni
66Ni
65Ni
64Ni
63Ni
62Ni
61Ni
60Ni
59Ni
58Ni
57Ni
56Ni
55Ni
54Ni
53Ni
52Ni
51Ni
50Ni
81Zn
80Zn
79Zn
78Zn
77Zn
76Zn
75Zn
74Zn
73Zn
72Zn
71Zn
70Zn
69Zn
68Zn
67Zn
66Zn
65Zn
64Zn
63Zn
62Zn
61Zn
60Zn
59Zn
58Zn
57Zn
56Zn
55Zn
54Zn
85Ge
84Ge
83Ge
82Ge
81Ge
80Ge
79Ge
78Ge
77Ge
76Ge
75Ge
74Ge
73Ge
72Ge
71Ge
70Ge
69Ge
68Ge
67Ge
66Ge
65Ge
64Ge
63Ge
62Ge
61Ge
60Ge
59Ge
58Ge
90Se
89Se
88Se
87Se
86Se
85Se
84Se
83Se
82Se
81Se
80Se
79Se
78Se
77Se
76Se
75Se
74Se
73Se
72Se
71Se
70Se
69Se
68Se
67Se
66Se
65Se

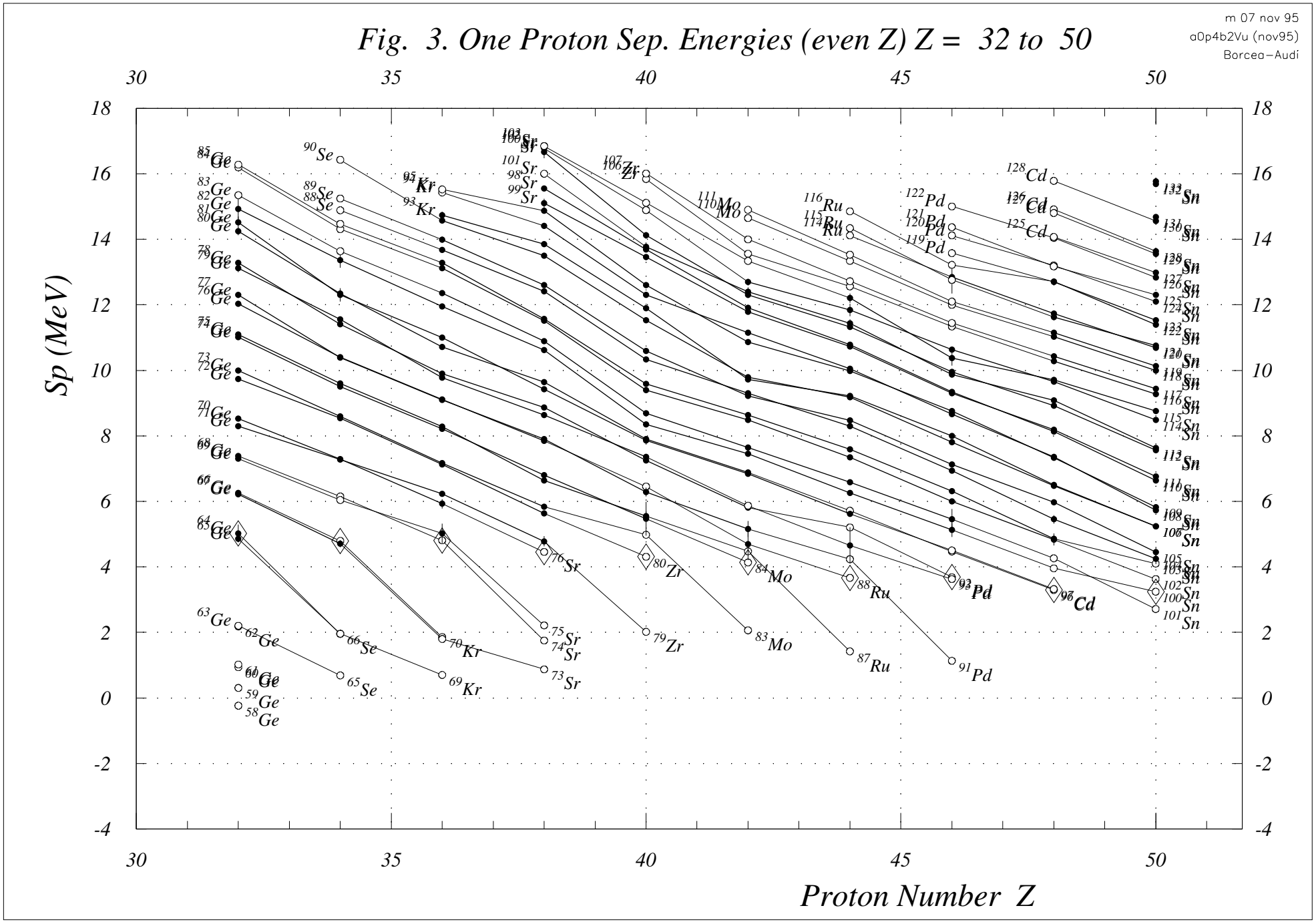

Fig. 3. One Proton Sep. Energies (even Z) Z = 32 to 50

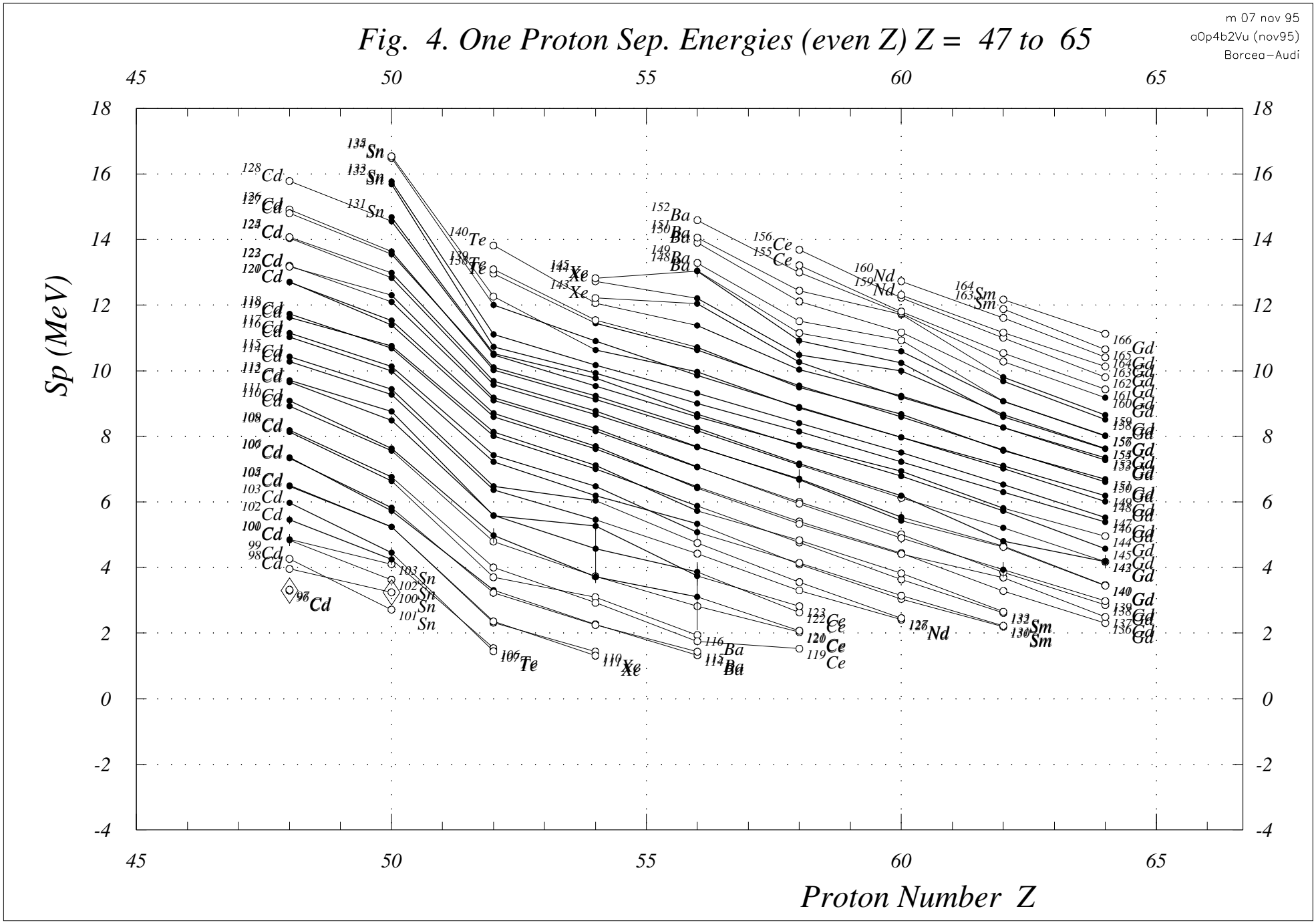
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Fig. 4. One Proton Sep. Energies (even Z) Z = 47 to 65
Sp (MeV)
Proton Number Z
45
50
55
60
65
18
16
14
12
10
8
6
4
2
0
-2
-4