## Graphs of separation and decay energies

| | | | |
|---|---|---|---|
| Figs. | 1– 9. | $S_{2n}$ | two-neutron separation energies. |
| Figs. | 10–17. | $S_{2p}$ | two-proton separation energies. |
| Figs. | 18–26. | $Q_{\alpha}$ | $\alpha$-decay energies. |
| Figs. | 27–36. | $Q_{\beta\beta}$ | double $\beta$-decay energies. |

Mass numbers and element symbol are indicated only along the borders of the graphs; those for the intermediate points must be derived by enumeration.

Points represent experimental values.
Open circles represent values estimated from systematic trends.

Lines connect points for isotopes ($S_{2n}, Q_{\alpha}, Q_{\beta\beta}$) or isotones ($S_{2p}, Q_{\beta\beta}$).

Other types of graphs are available from the AMDC web-site (see text).

*Fig. 1. Two-neutron separation energies N = 0 to 25*

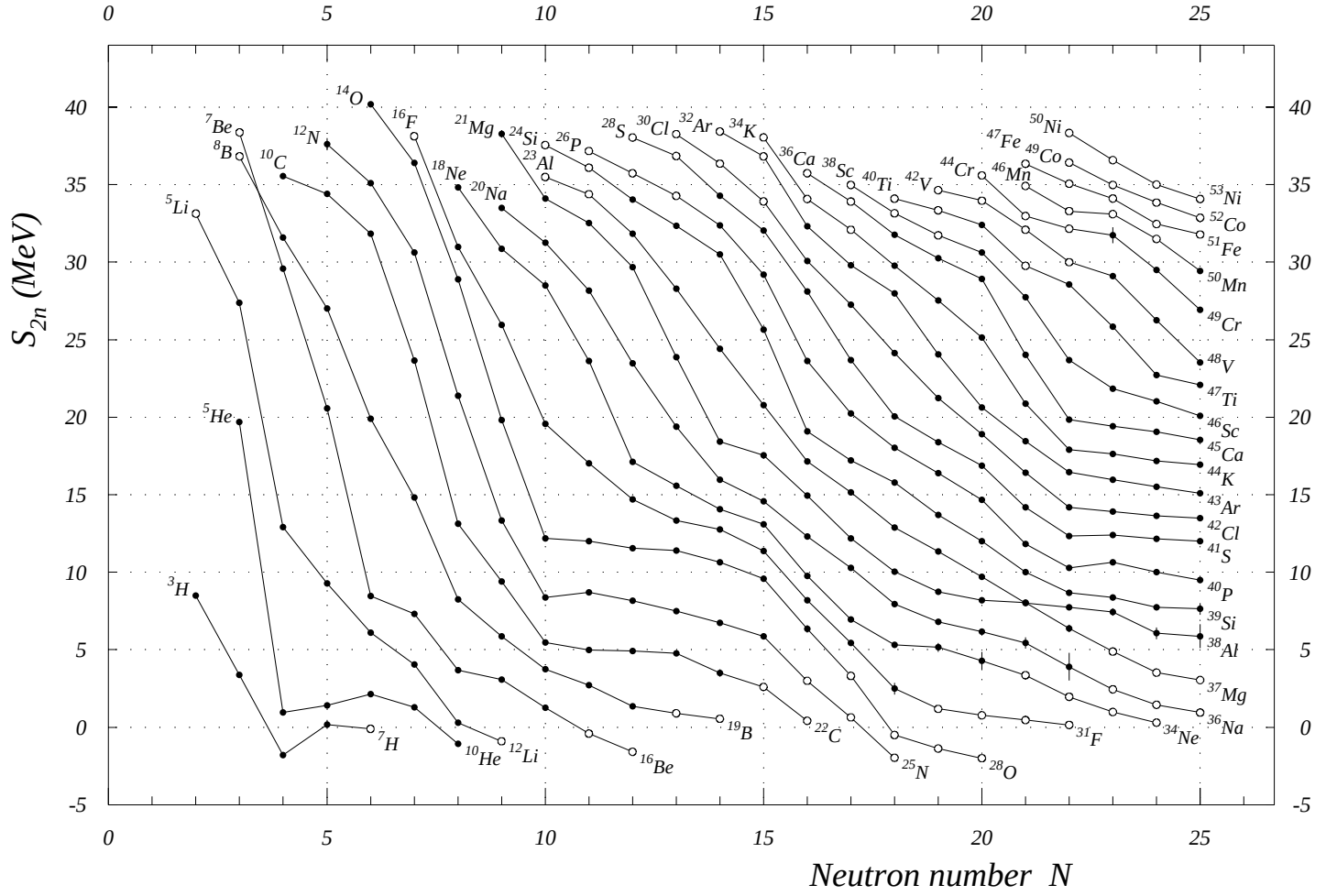

*Fig. 2. Two-neutron separation energies N = 22 to 45*

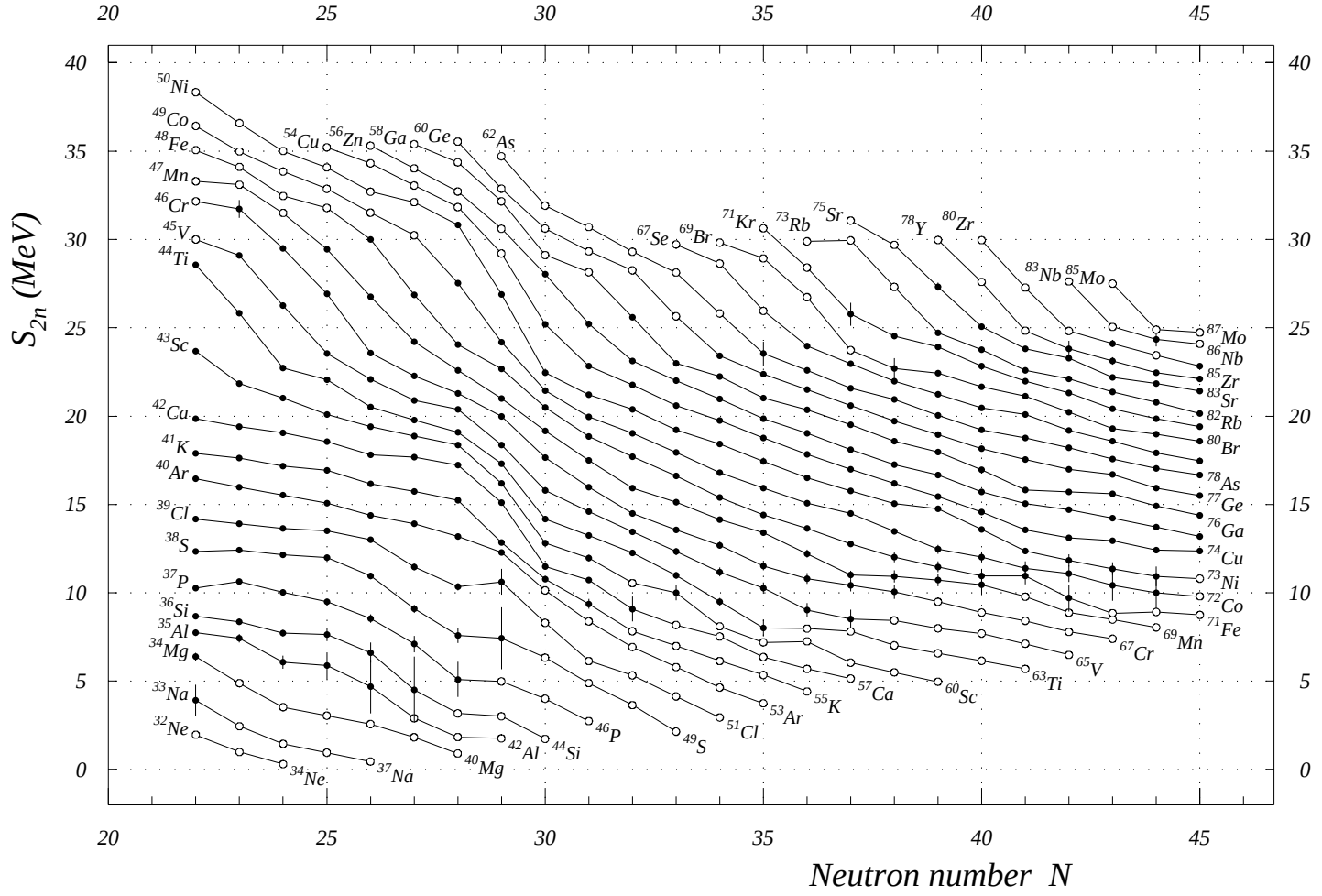

*Fig. 3. Two-neutron separation energies N = 42 to 65*

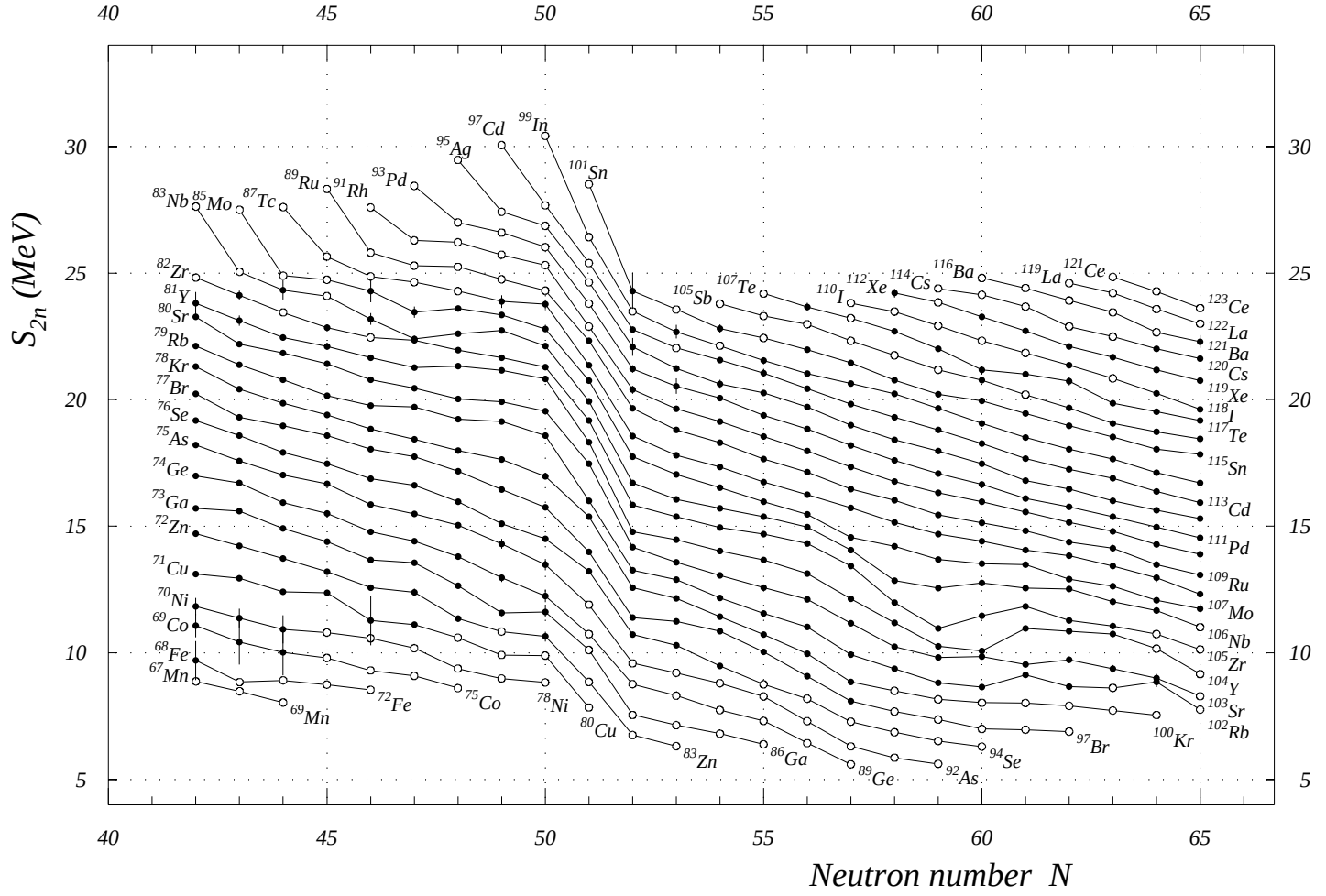

*Fig. 4. Two-neutron separation energies N = 62 to 85*

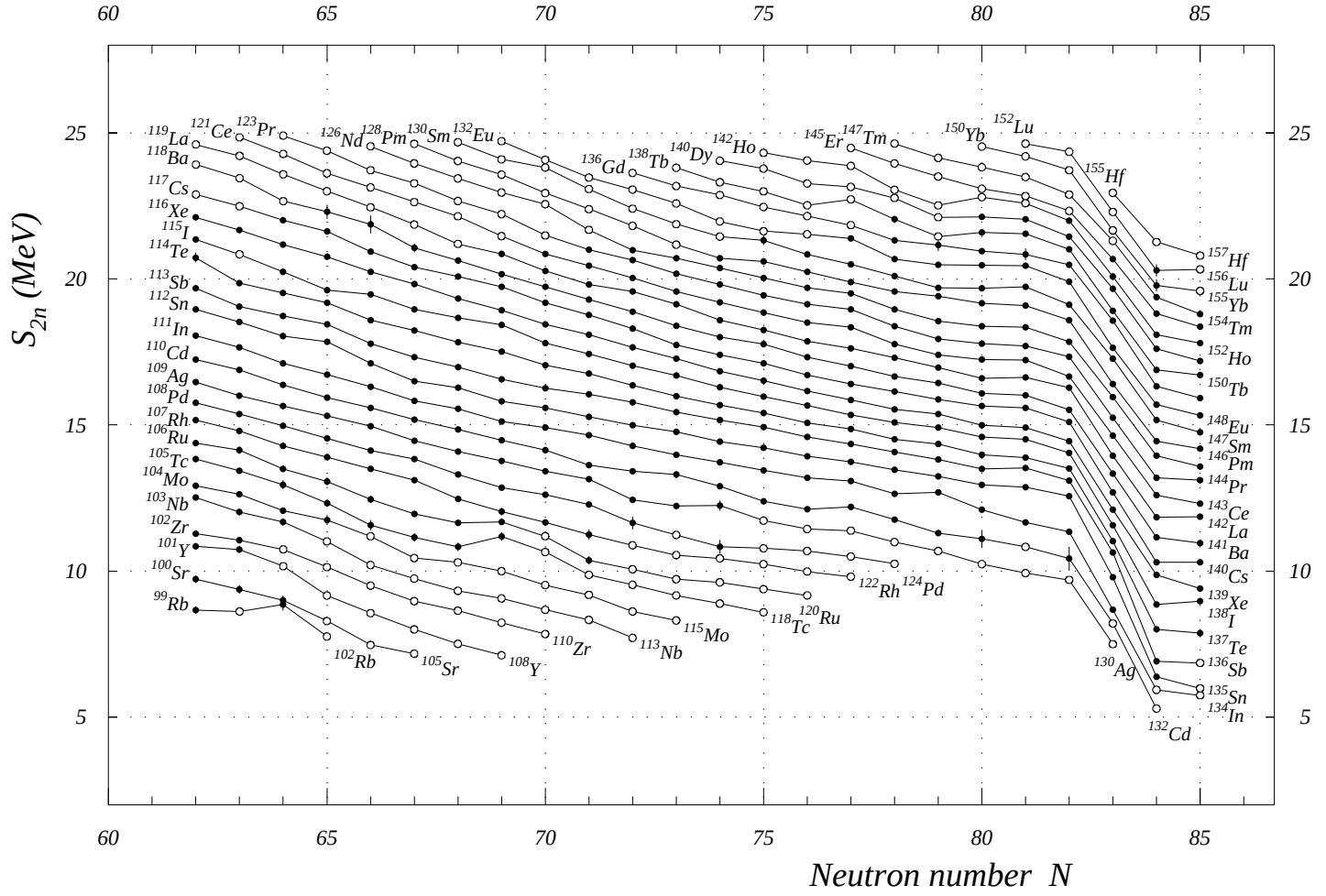

*Fig. 5. Two-neutron separation energies N = 82 to 105*

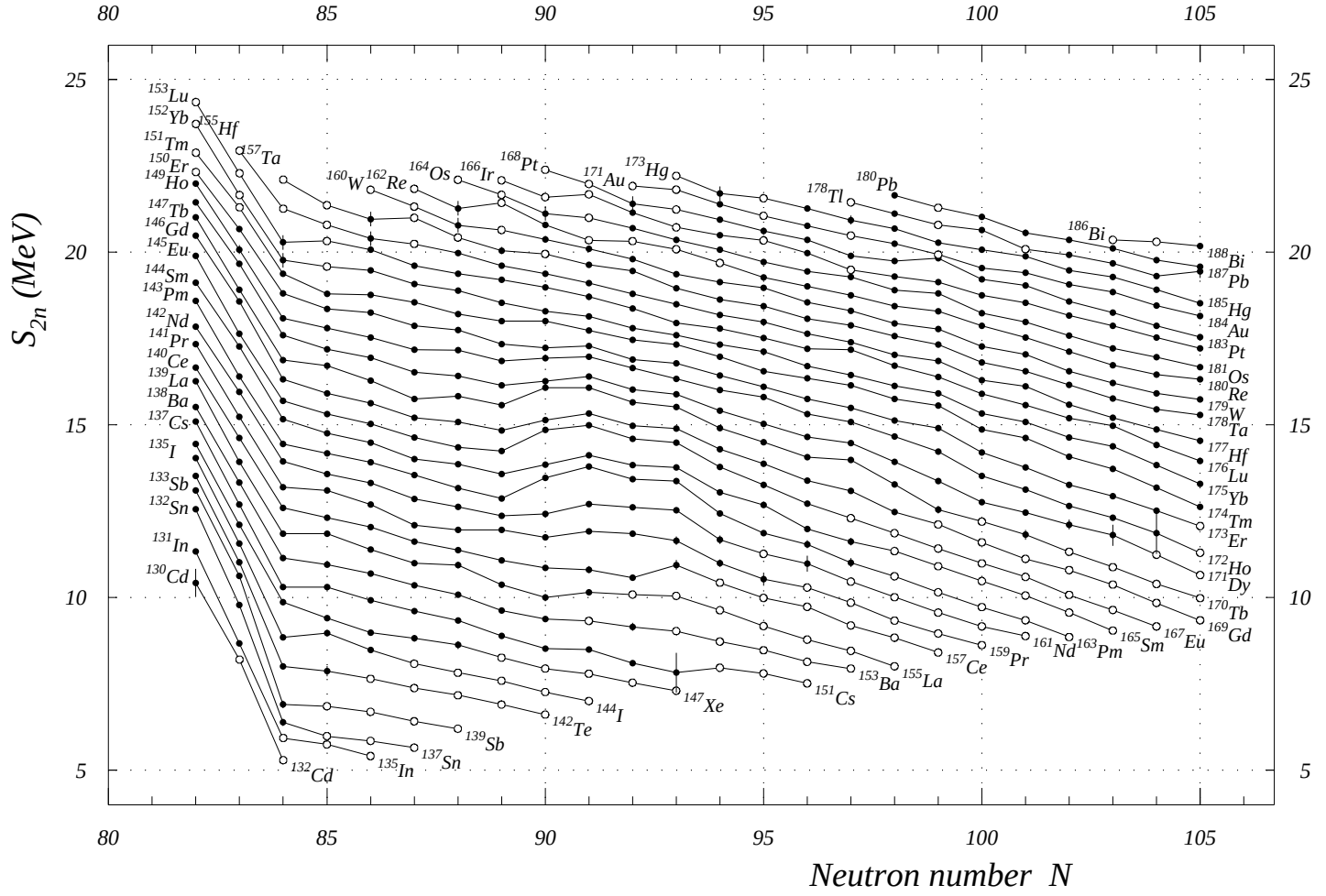

*Fig. 6. Two-neutron separation energies N = 102 to 125*

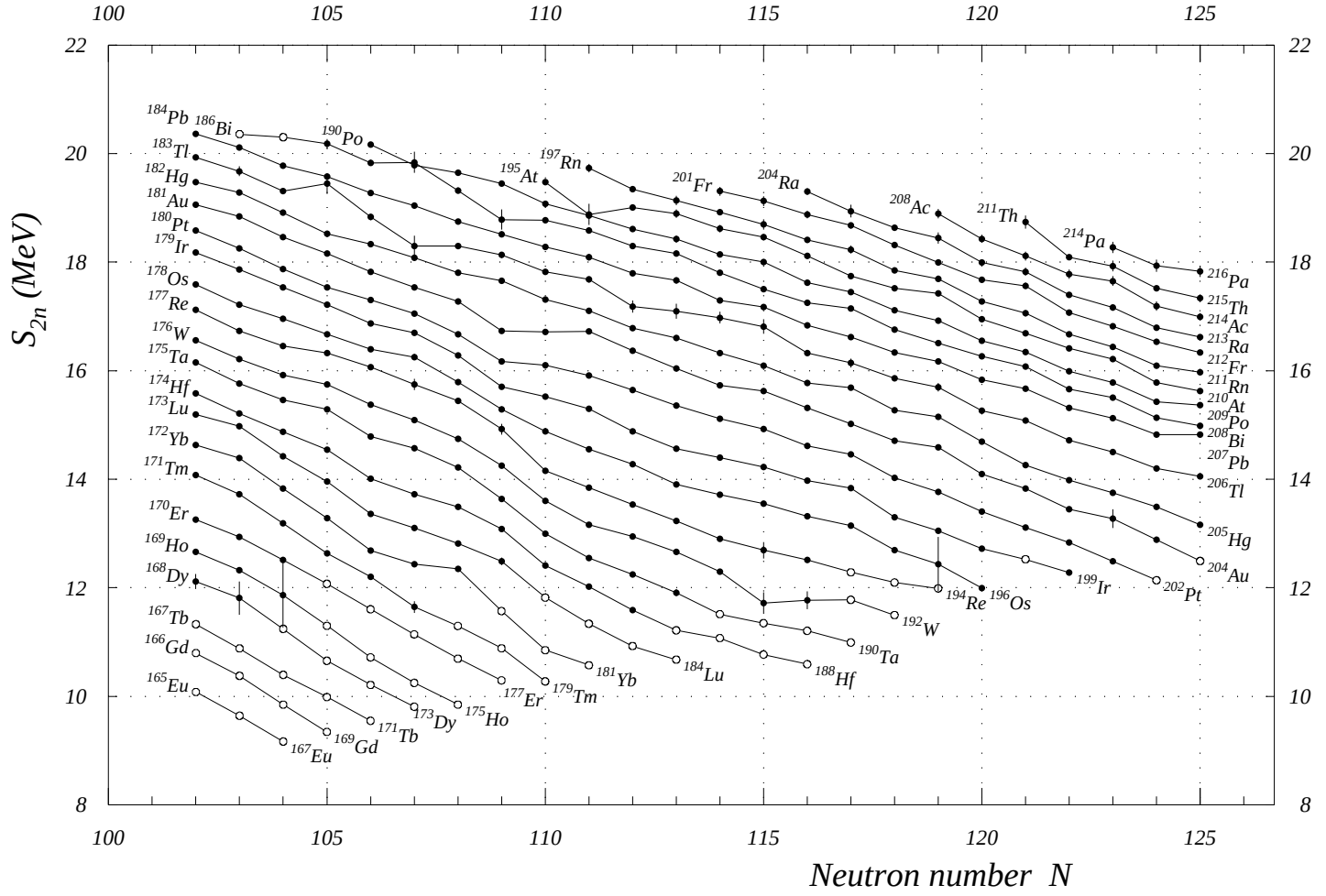

*Fig. 7. Two-neutron separation energies N = 122 to 145*

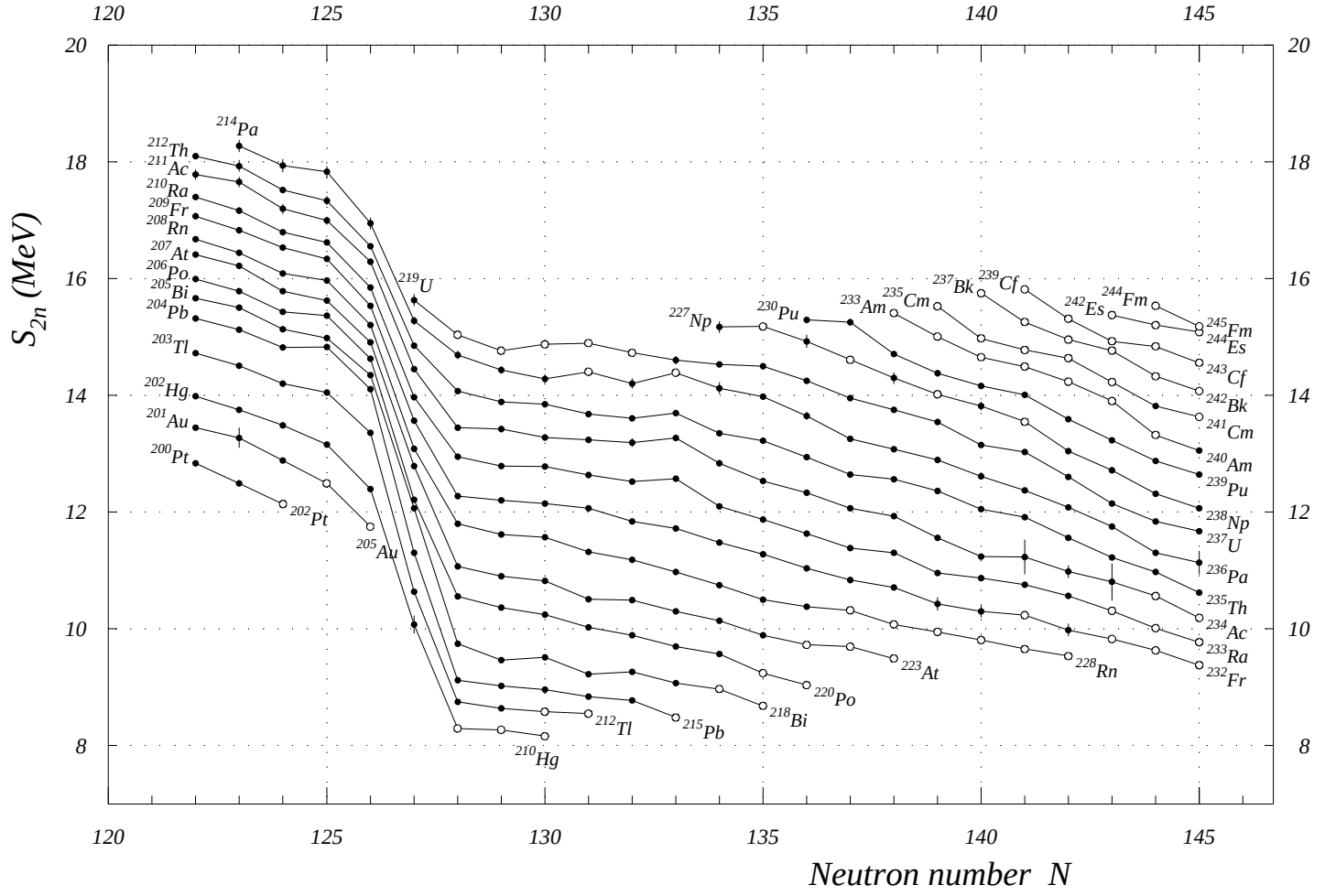

*Fig. 8. Two-neutron separation energies N = 142 to 165*

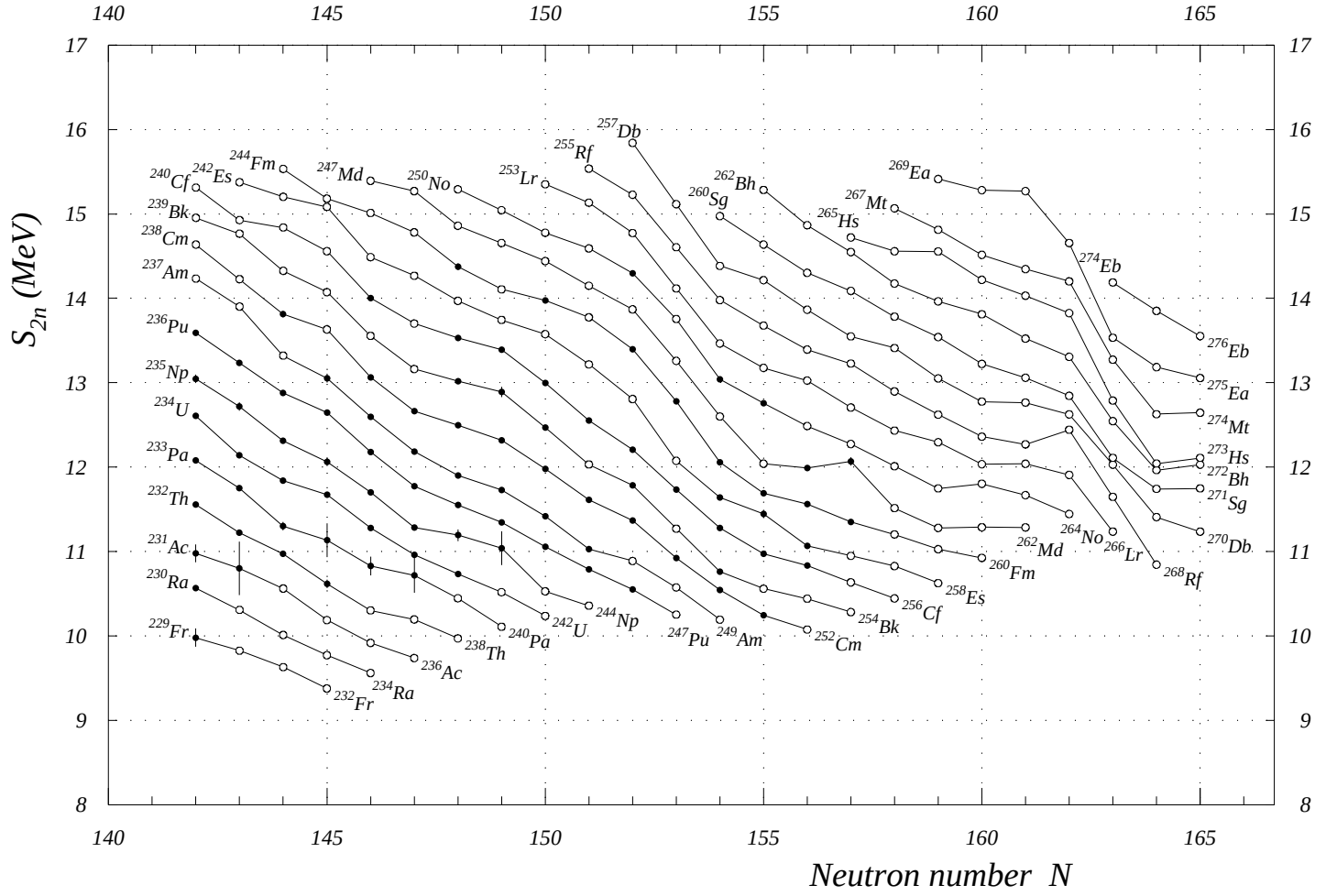

*Fig. 9. Two-neutron separation energies N = 155 to 178*

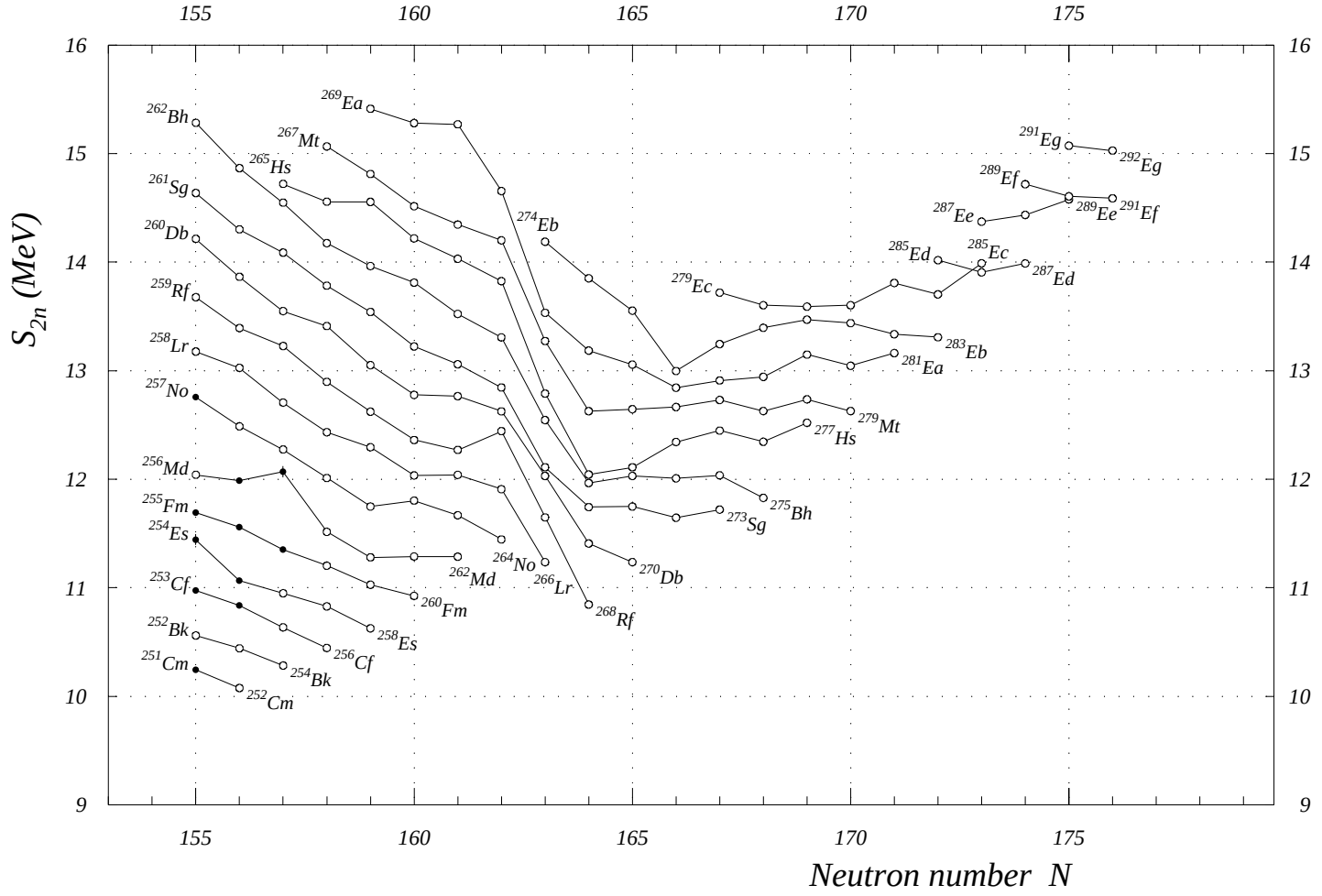

*Fig. 10. Two-proton separation energies Z = 0 to 20*

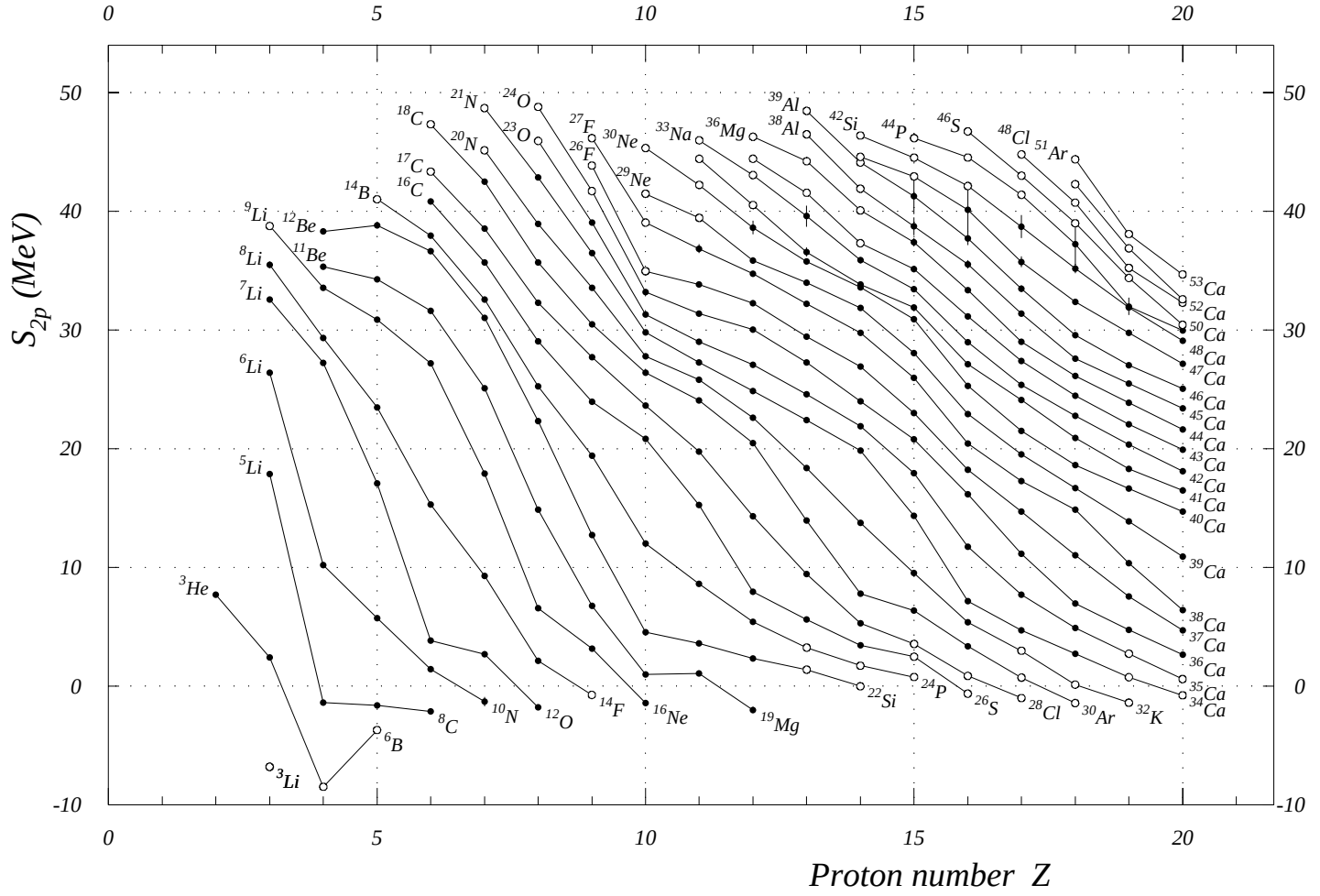

*Fig. 11. Two-proton separation energies Z = 17 to 35*

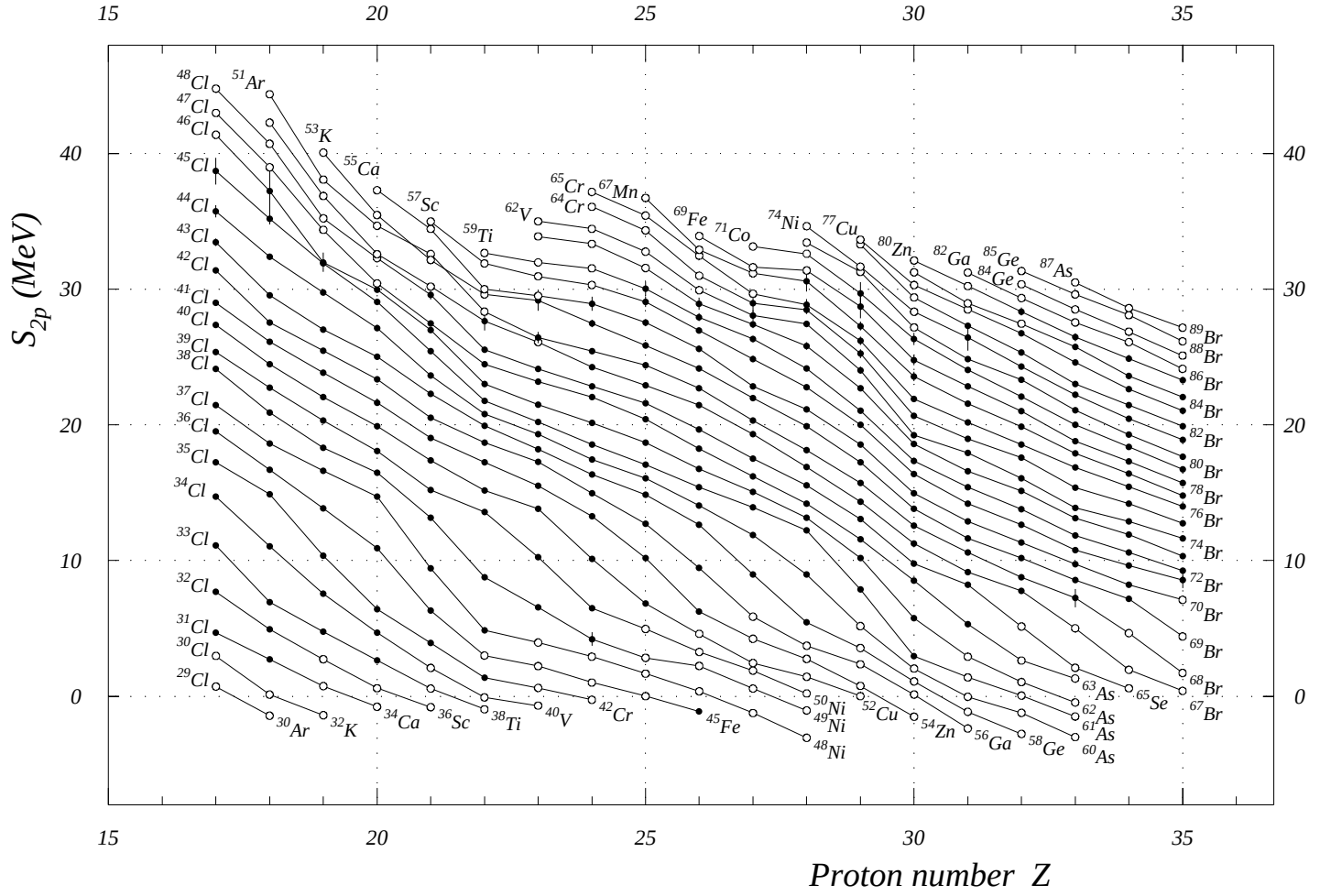

*Fig. 12. Two-proton separation energies Z = 32 to 50*

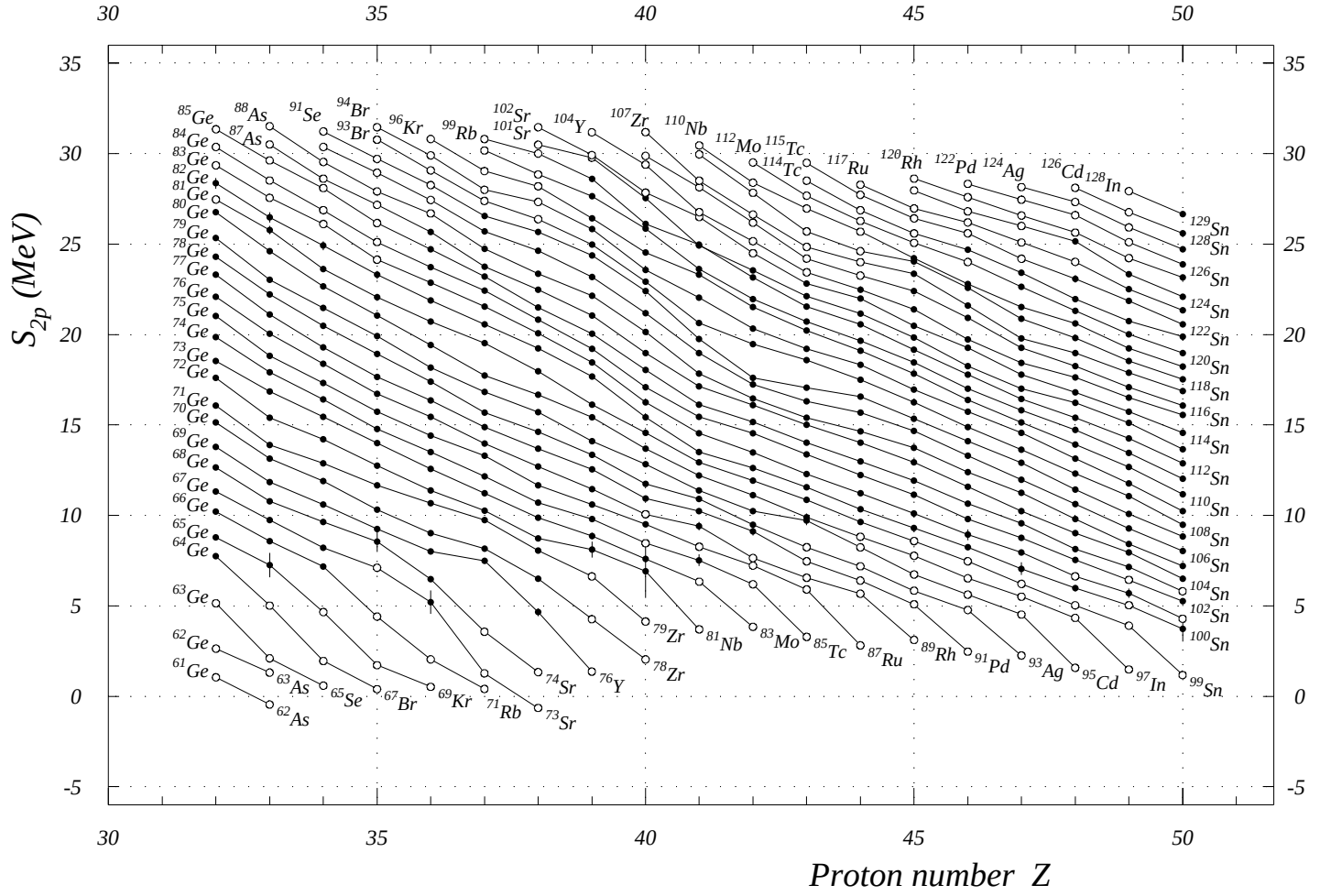

*Fig. 13. Two-proton separation energies Z = 47 to 65*

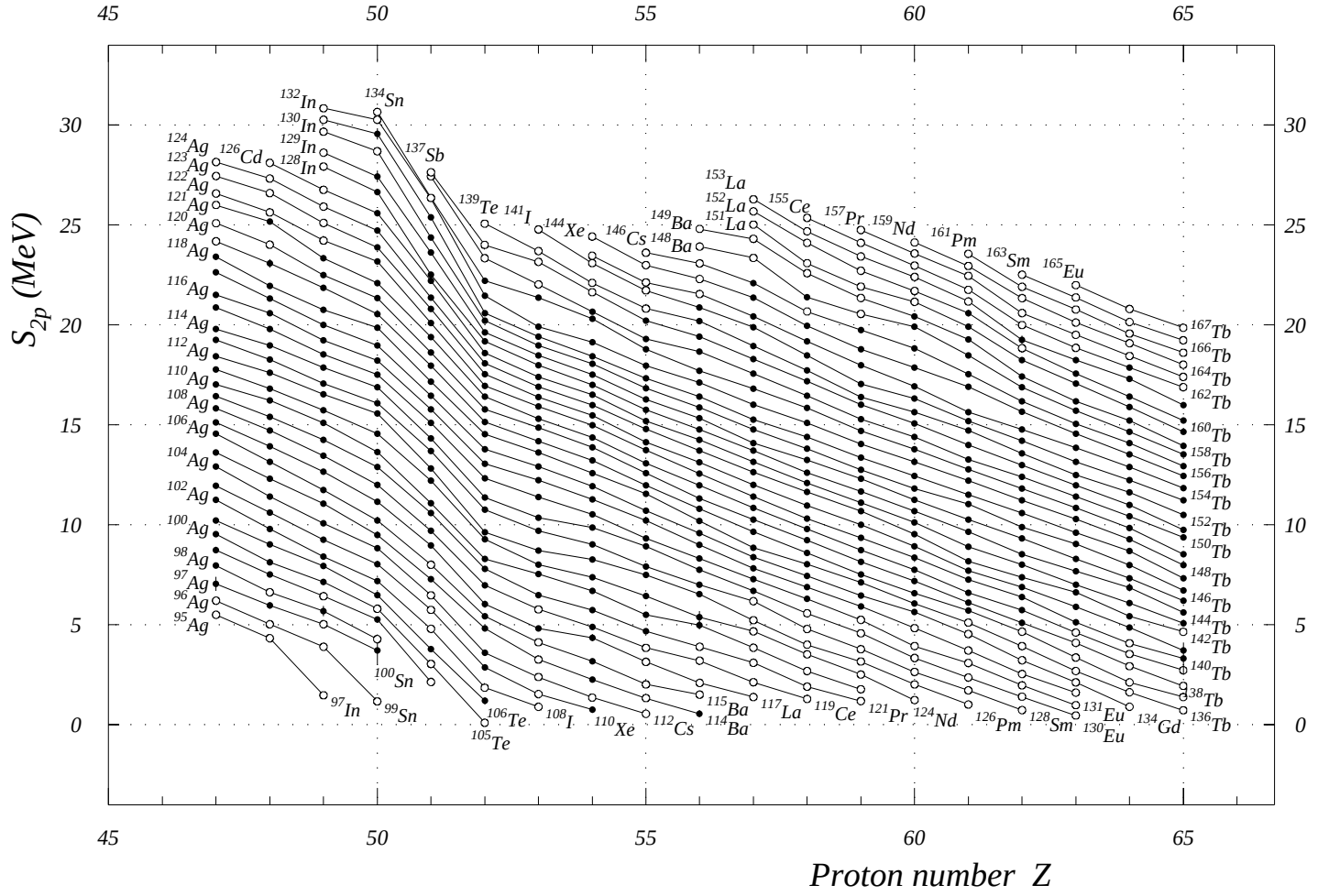

*Fig. 14. Two-proton separation energies Z = 62 to 80*

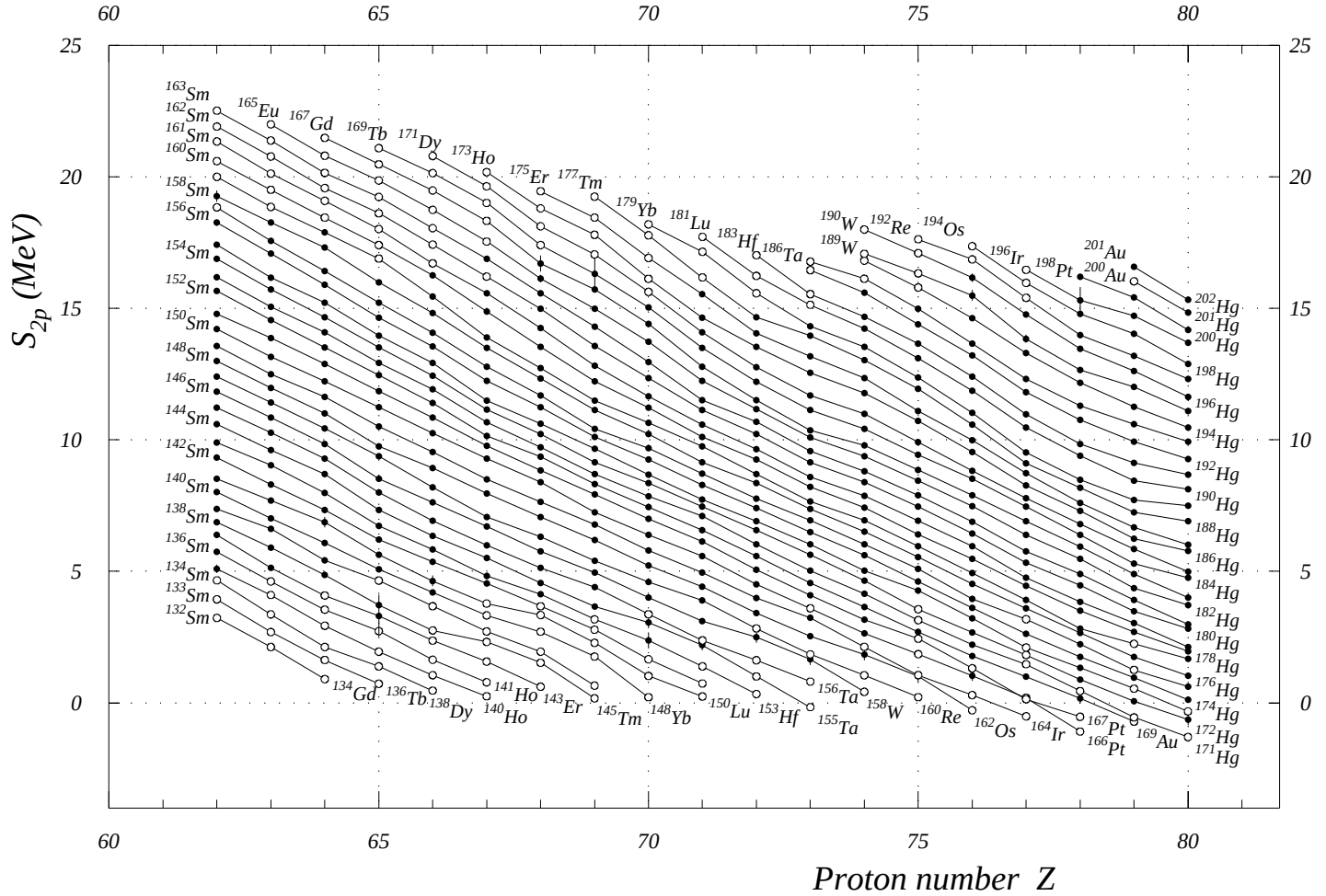

*Fig. 15. Two-proton separation energies Z = 77 to 95*

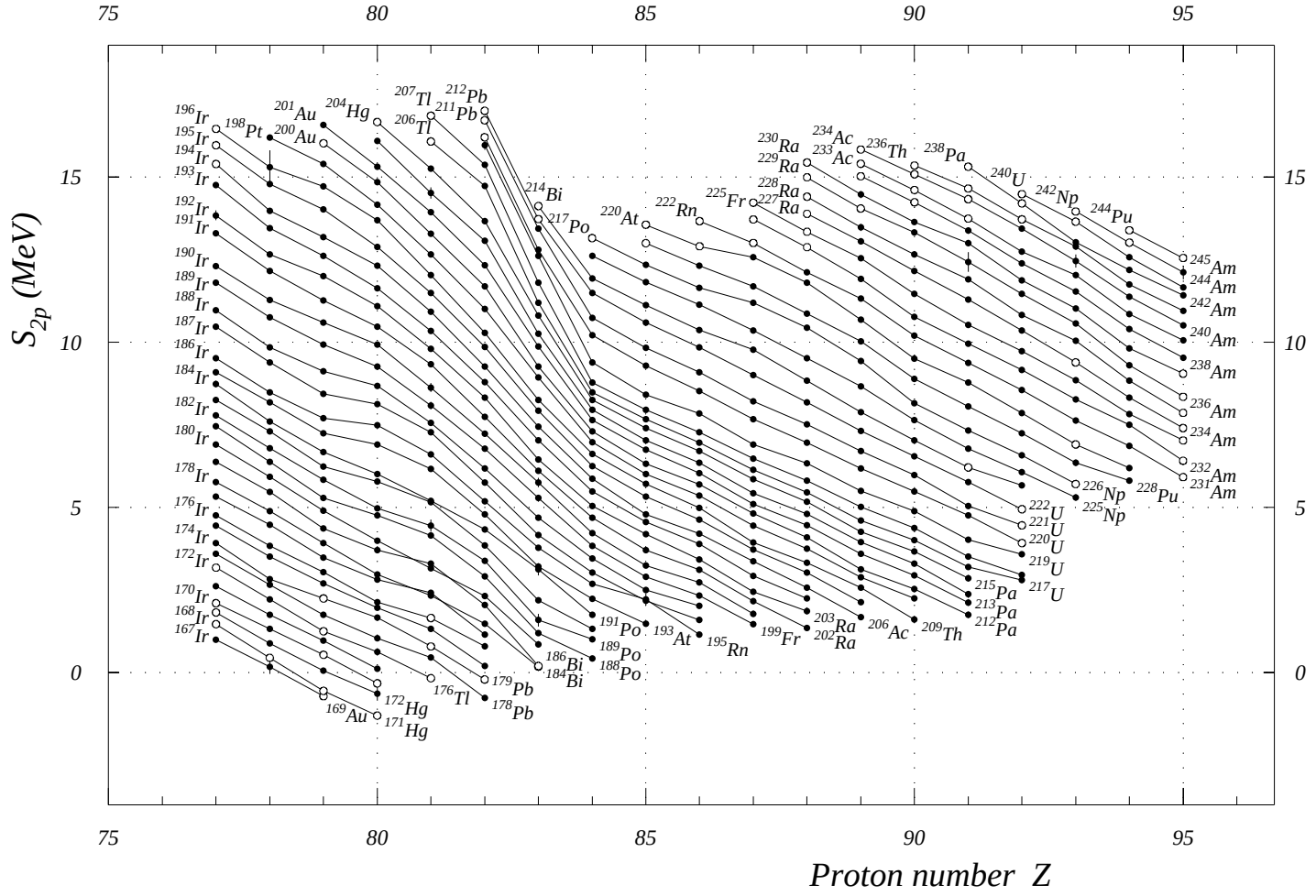

*Fig. 16. Two-proton separation energies Z = 92 to 110*

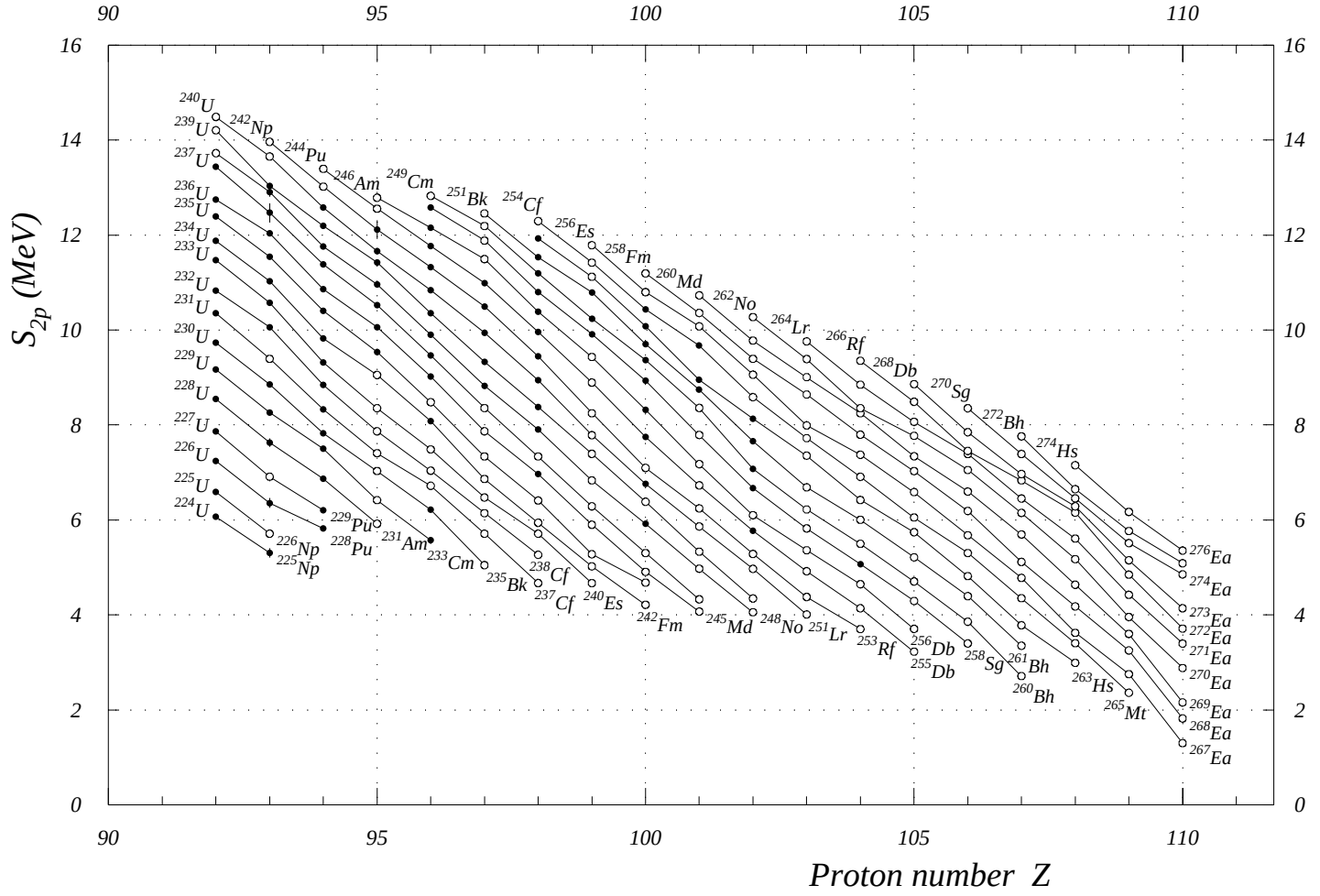

*Fig. 17. Two-proton separation energies Z = 100 to 118*

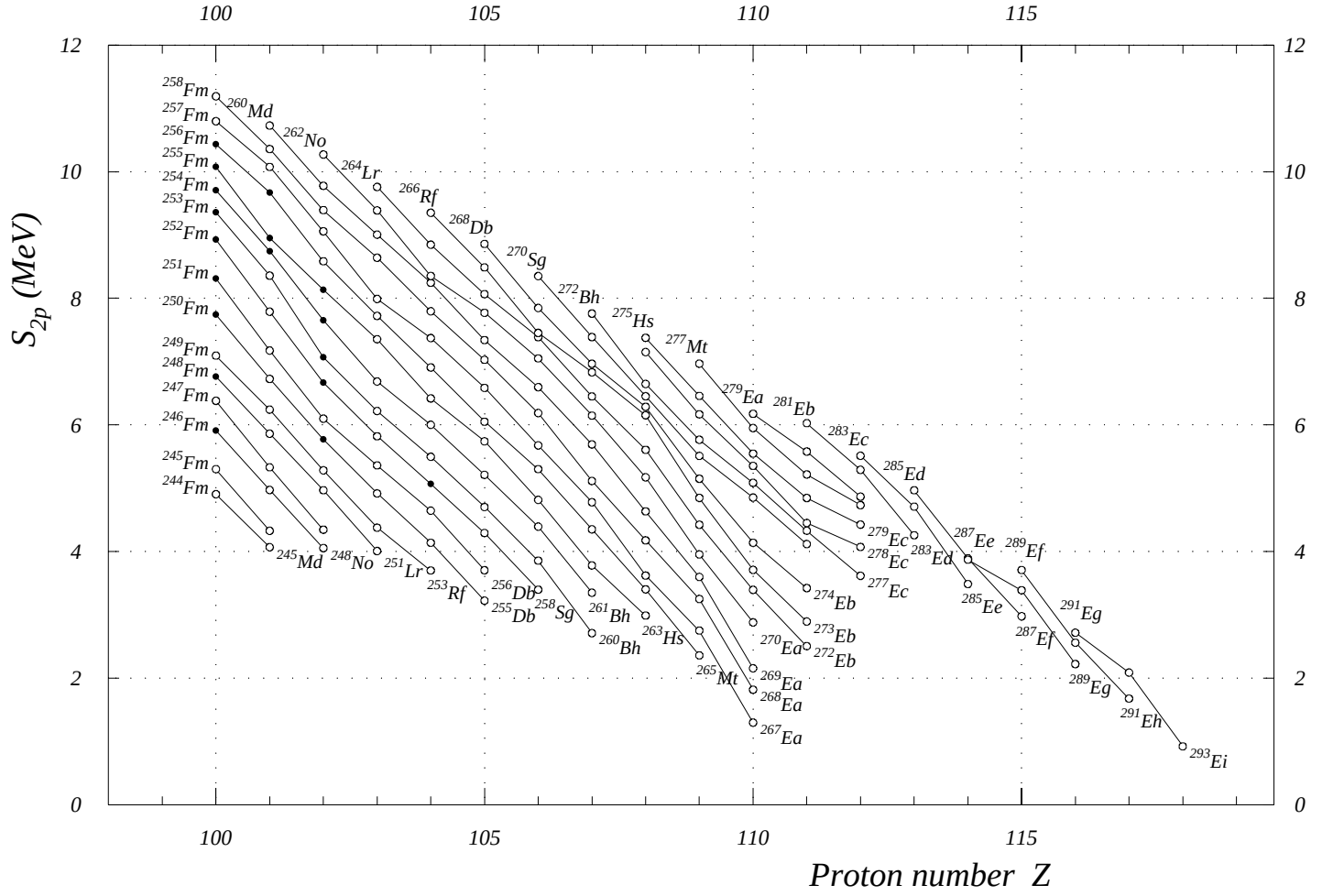

*Fig. 18. α-decay energies* *N = 0 to 25*

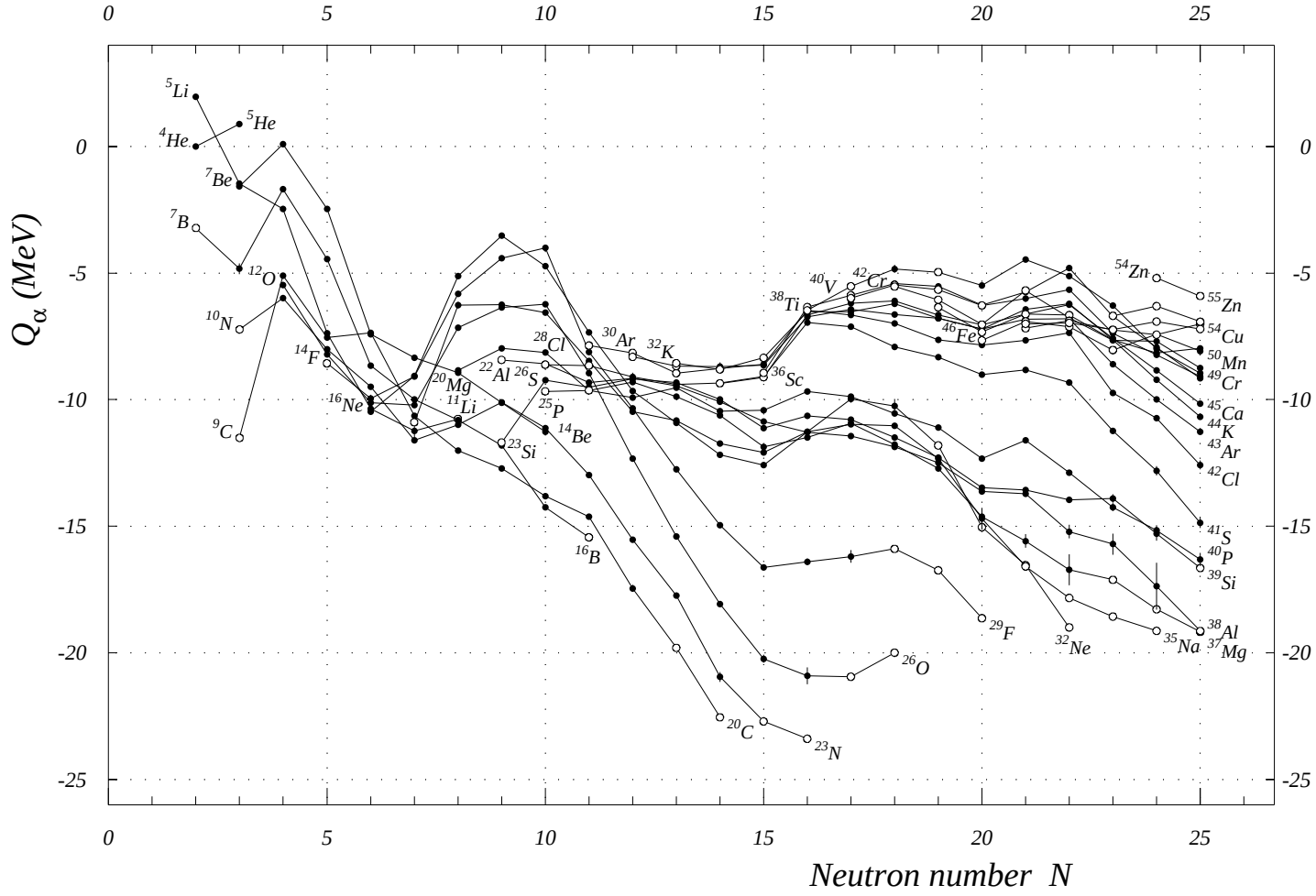

*Fig. 19. α-decay energies* *N = 22 to 45*

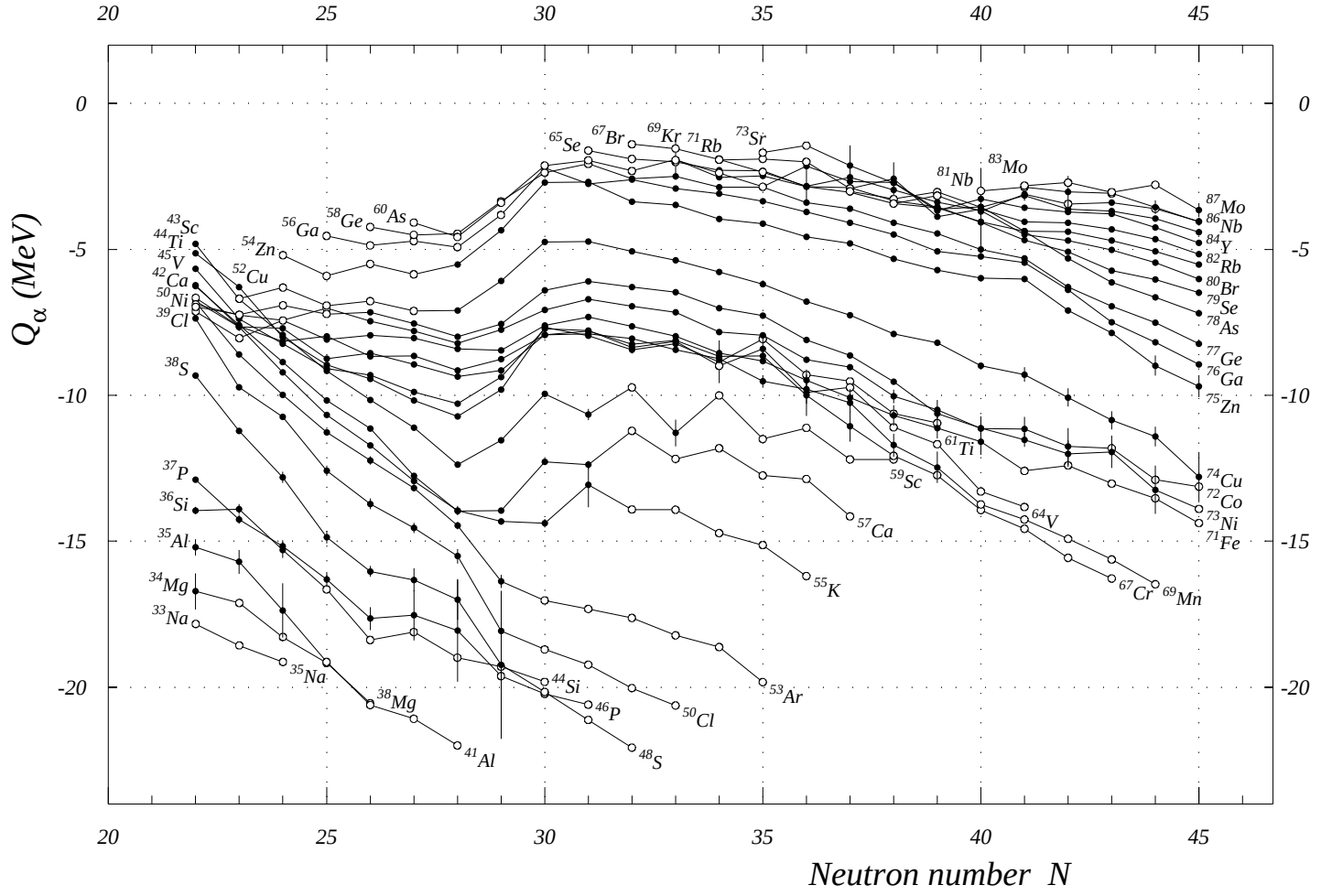

*Fig. 20. α-decay energies* *N = 42 to 65*

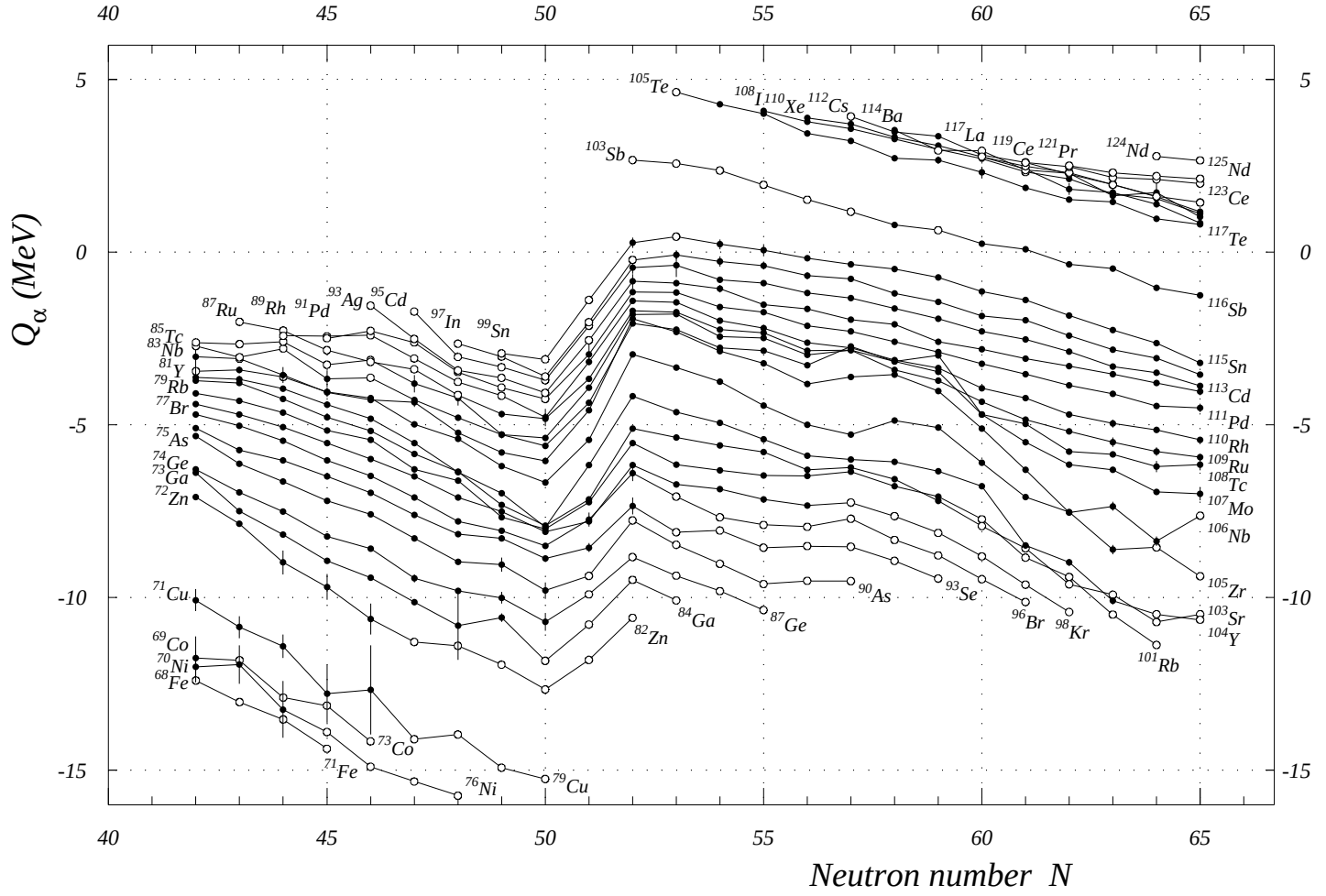

*Fig. 21. α-decay energies* *N = 62 to 85*

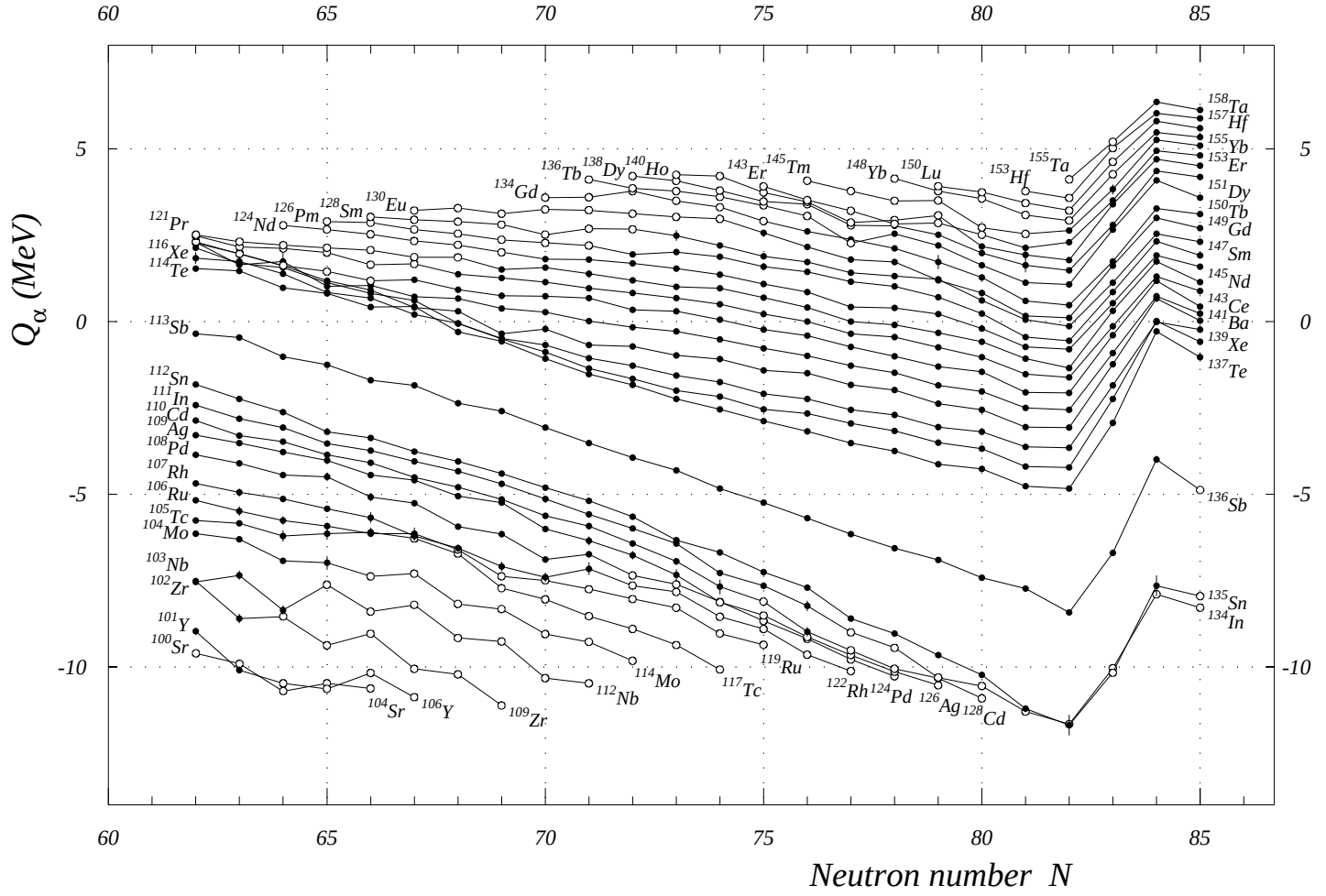

*Fig. 22. α-decay energies N = 82 to 105*

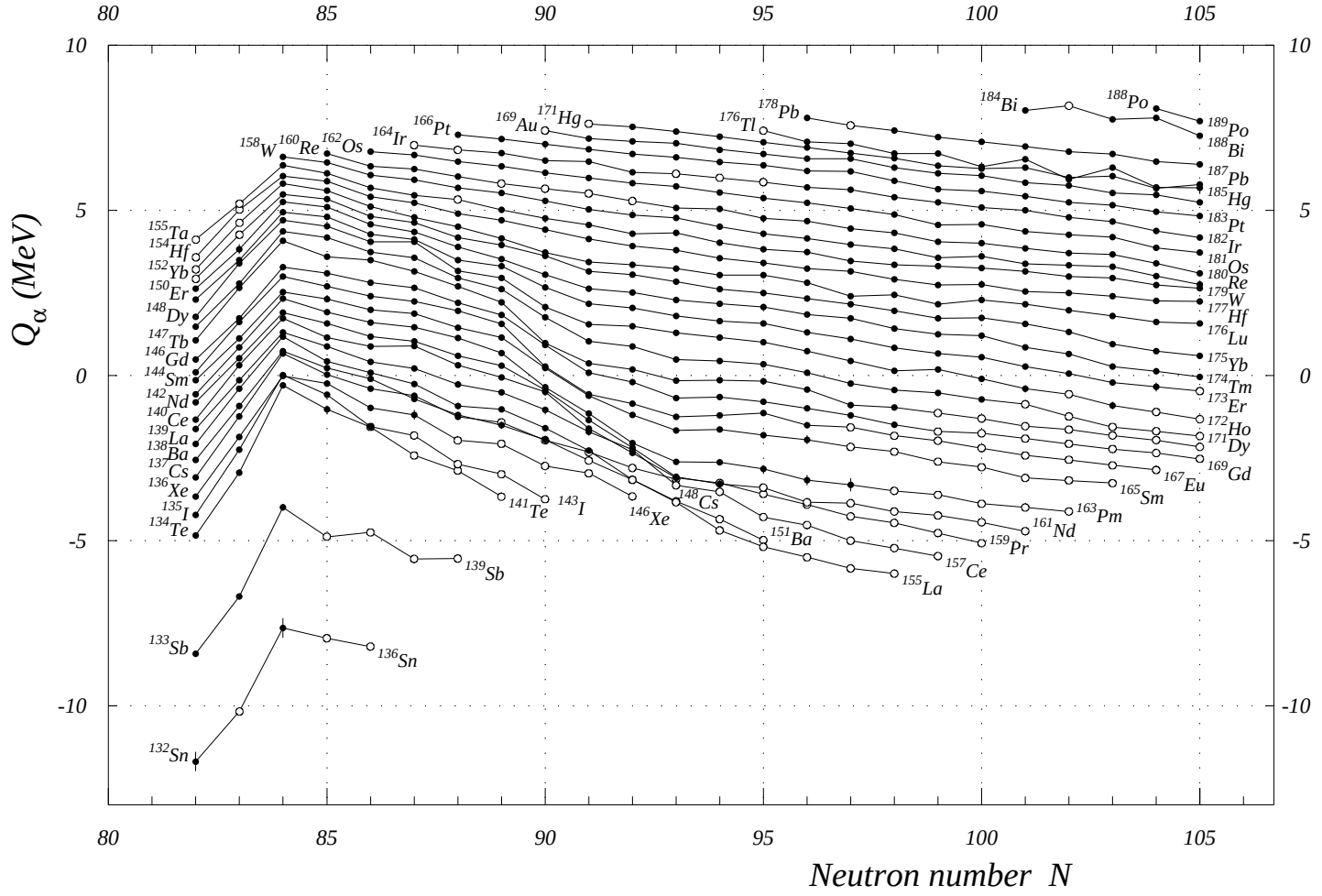

*Fig. 23. α-decay energies N = 102 to 125*

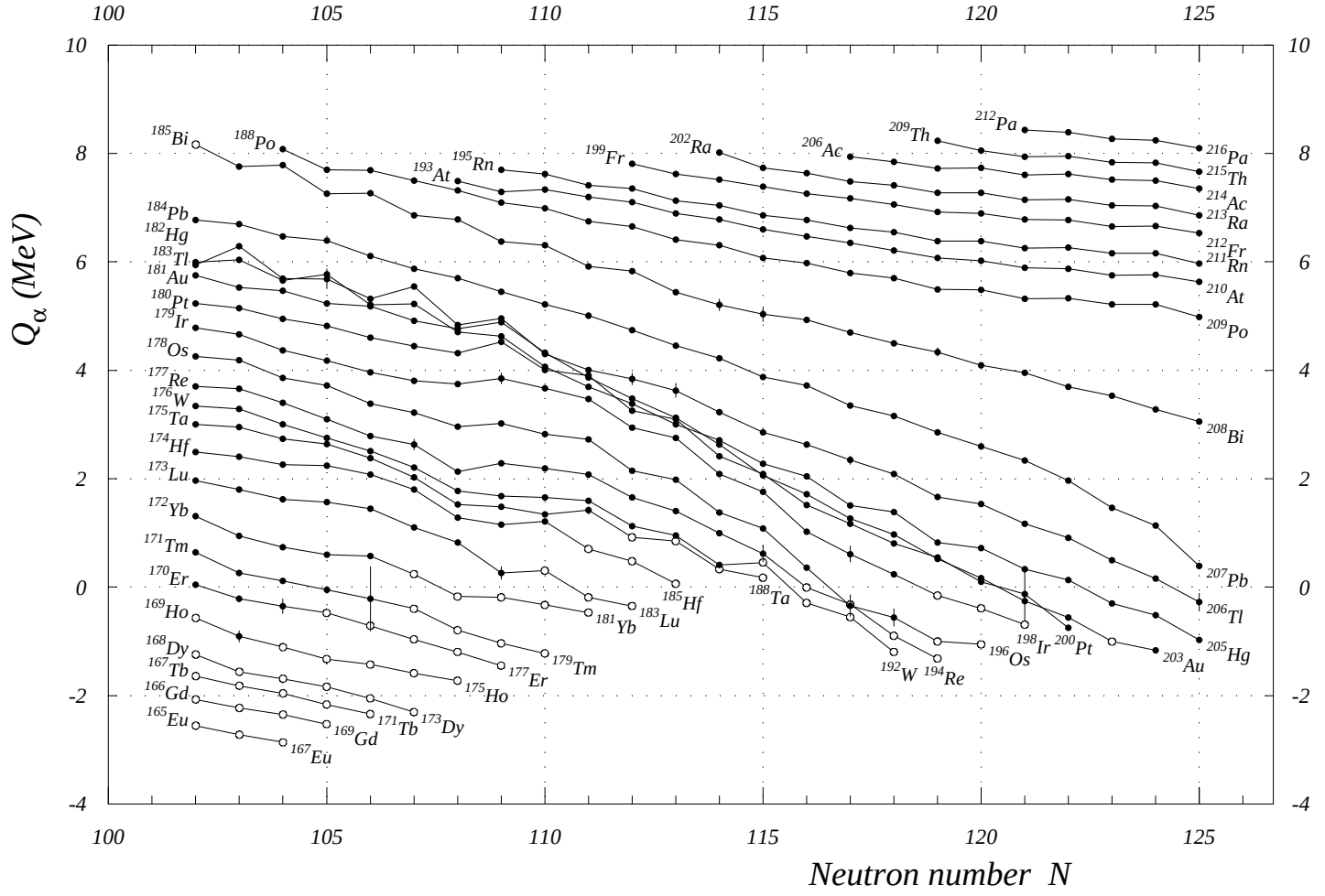

*Fig. 24. α-decay energies N = 122 to 145*

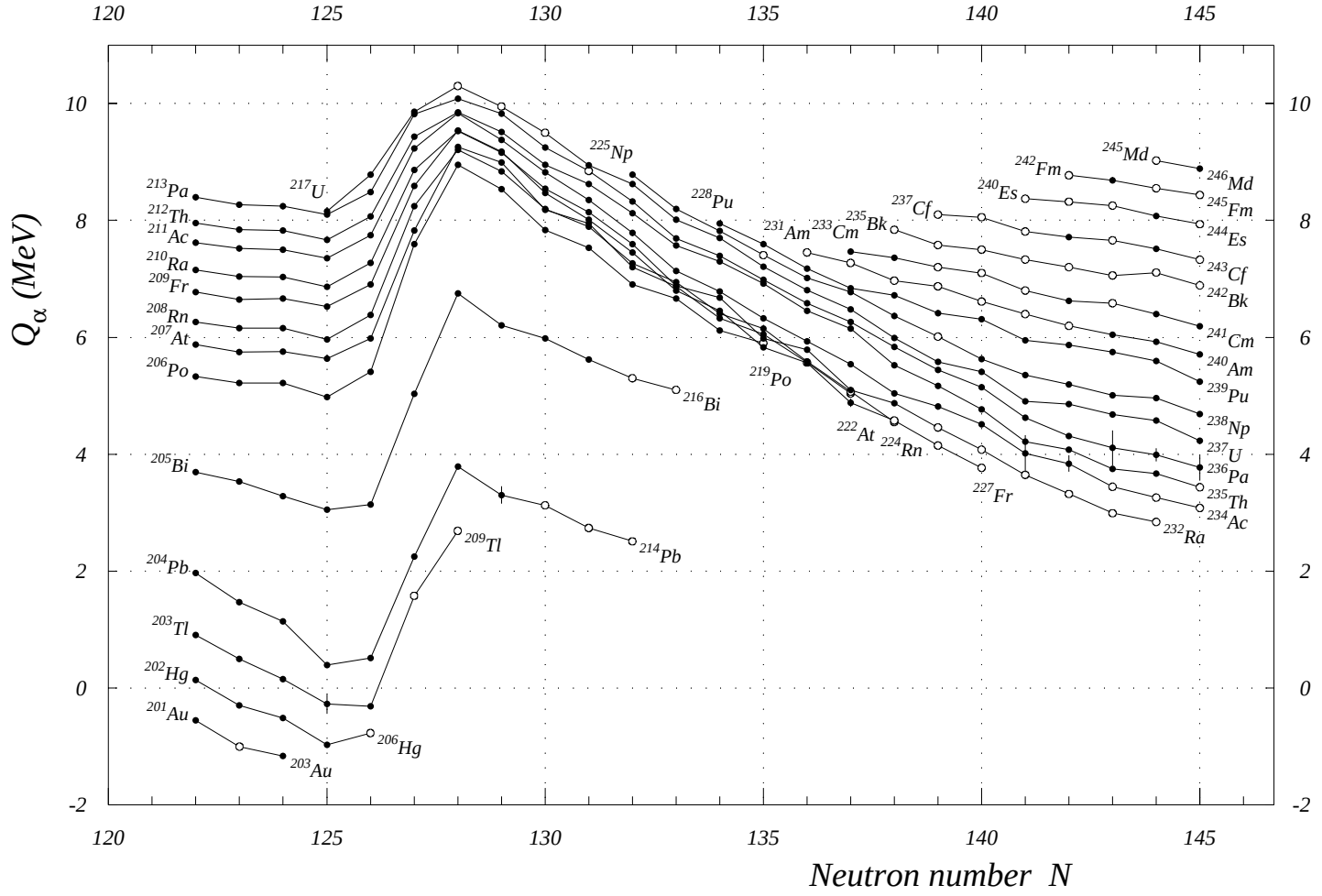

*Fig. 25. α-decay energies N = 142 to 165*

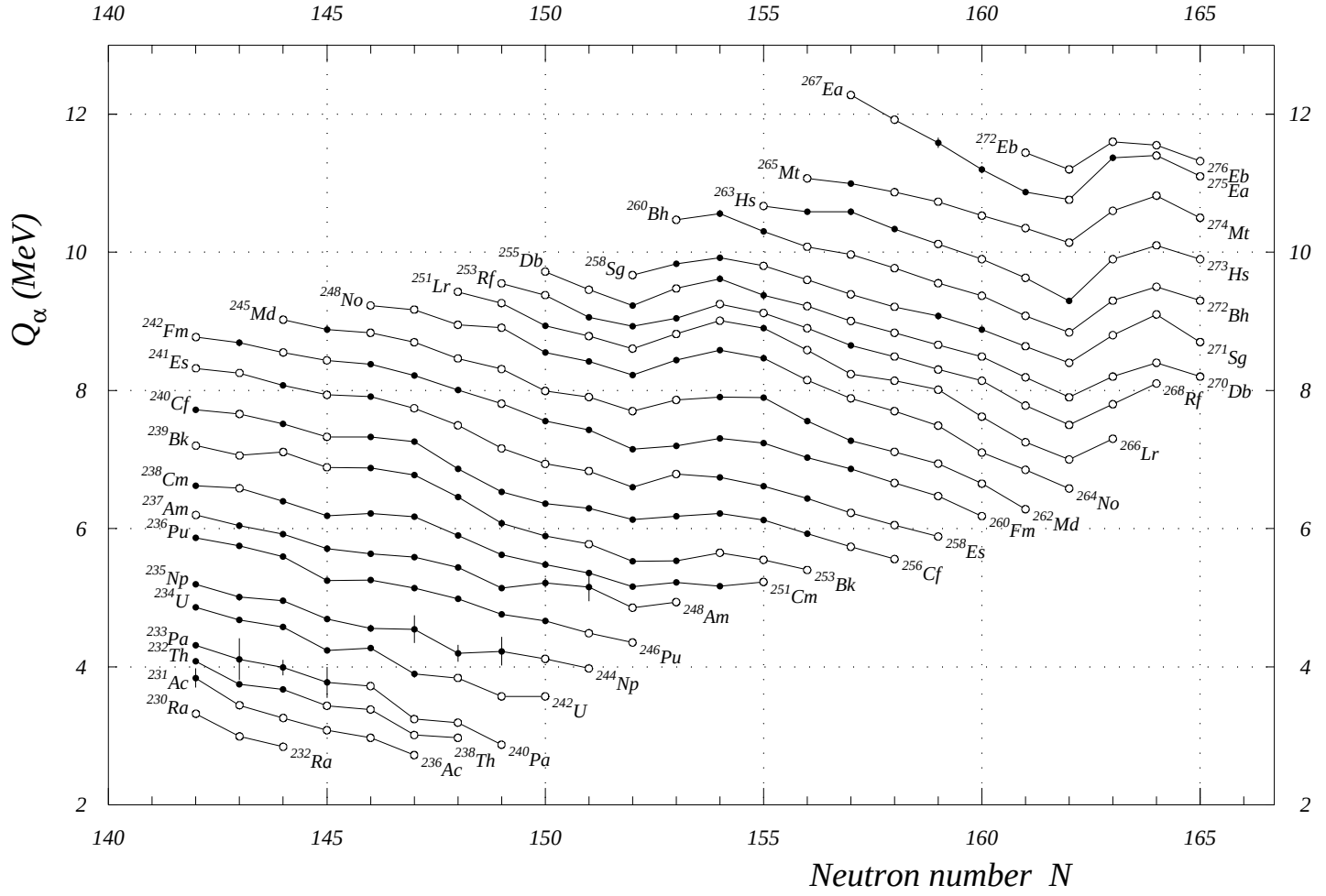

*Fig. 26. α-decay energies* *N = 157 to 178*

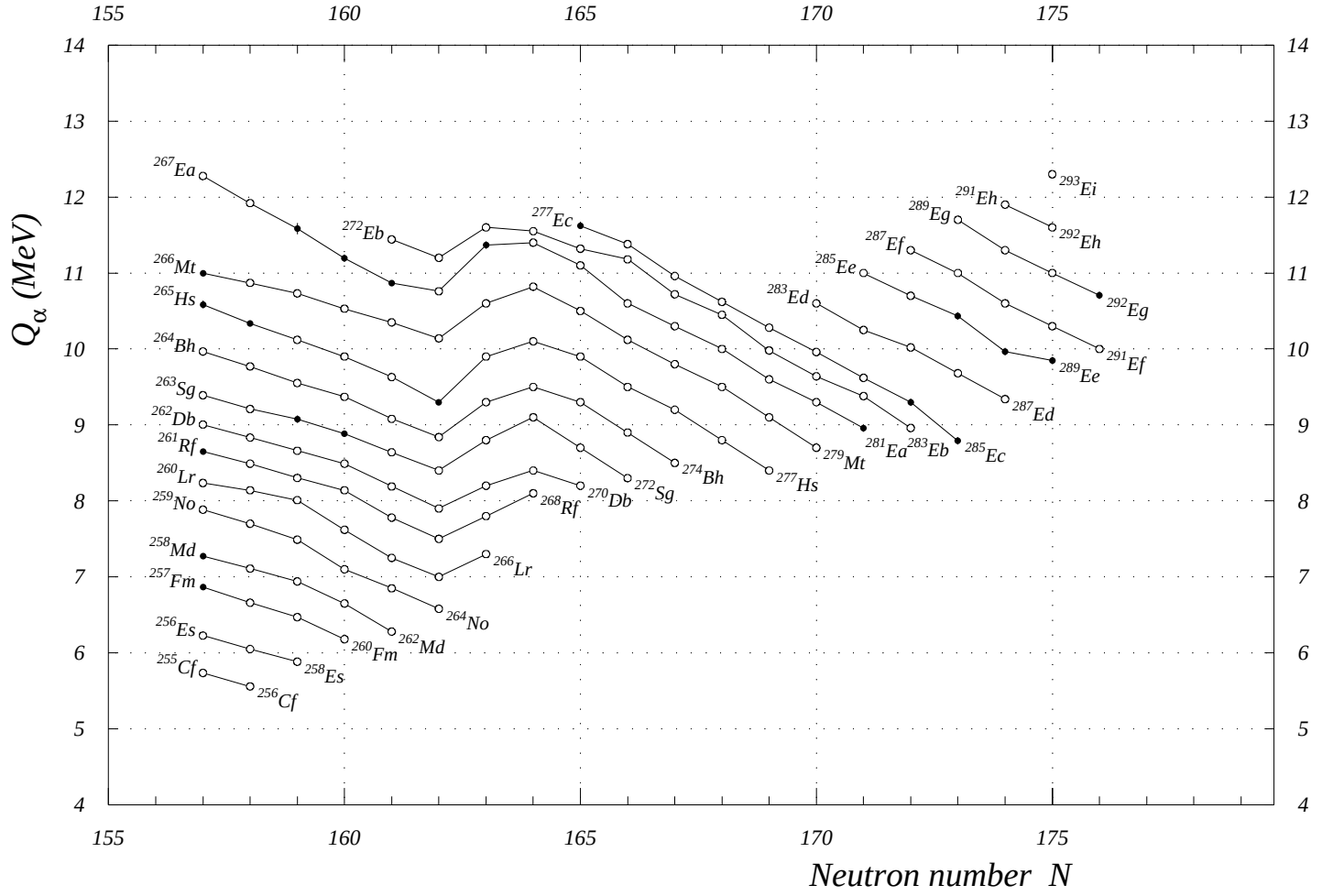

*Fig. 27. Double β-decay energies A = 0 to 35*

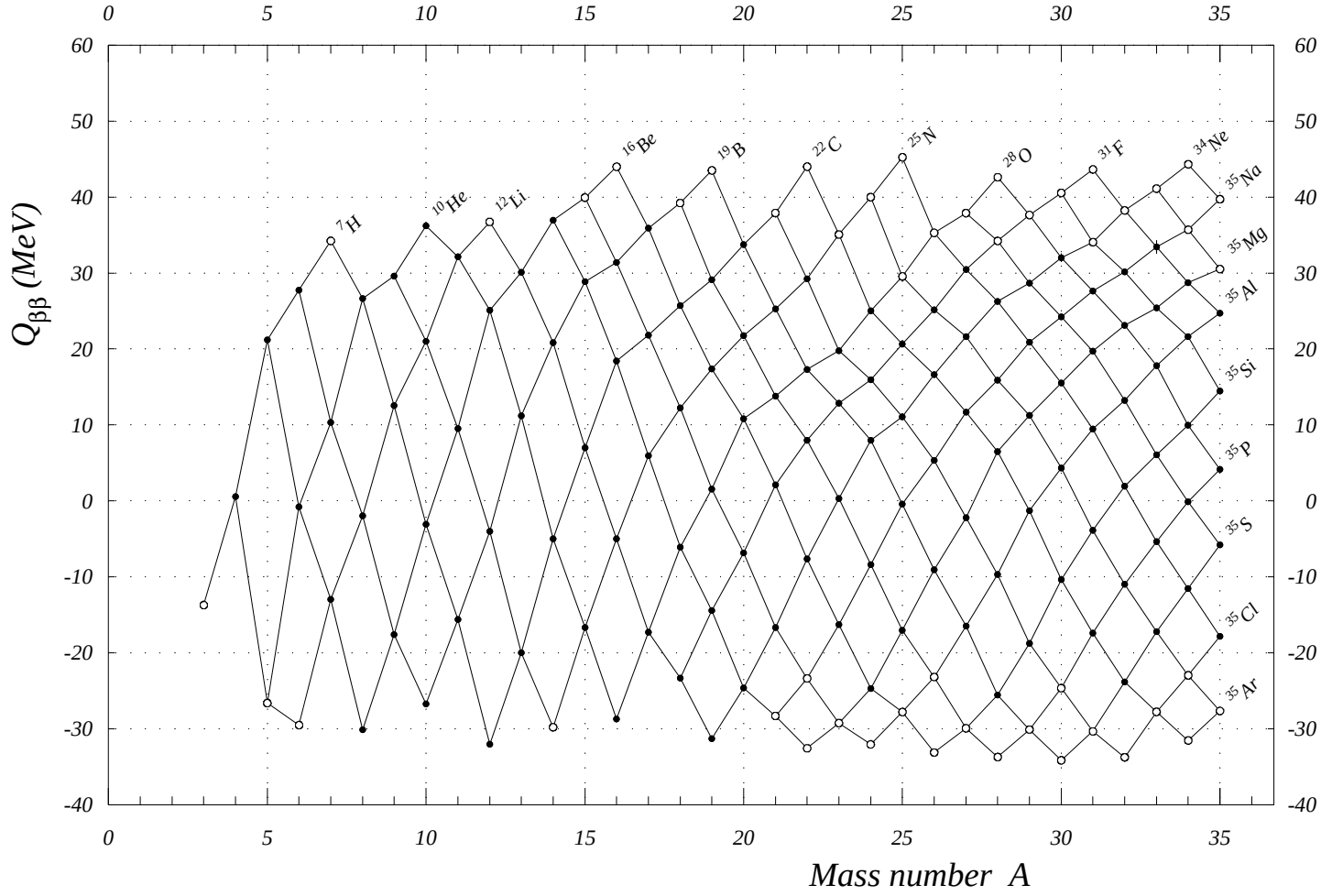

*Fig. 28. Double β-decay energies A = 32 to 65*

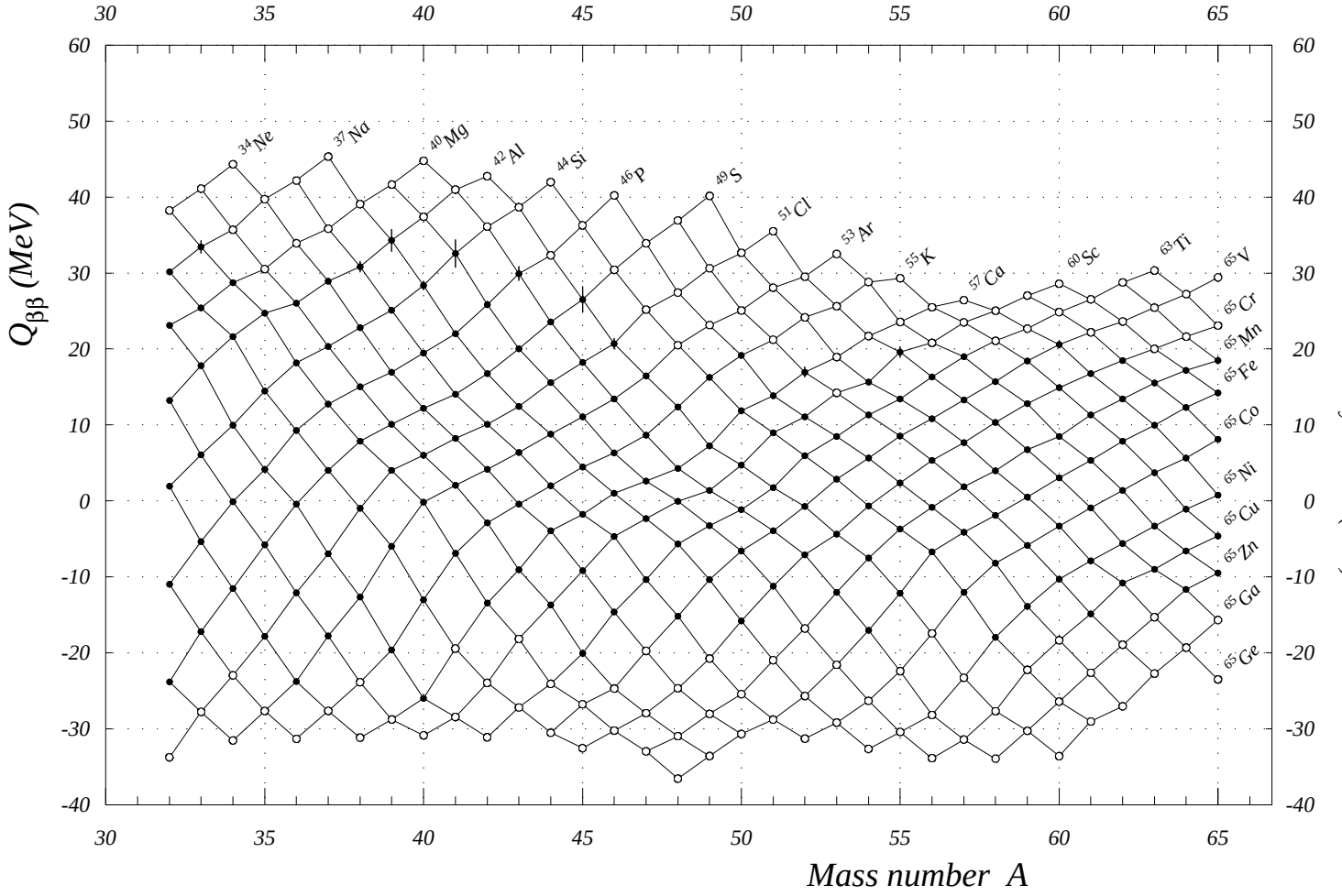

*Fig. 29. Double β-decay energies  A = 62 to 95*

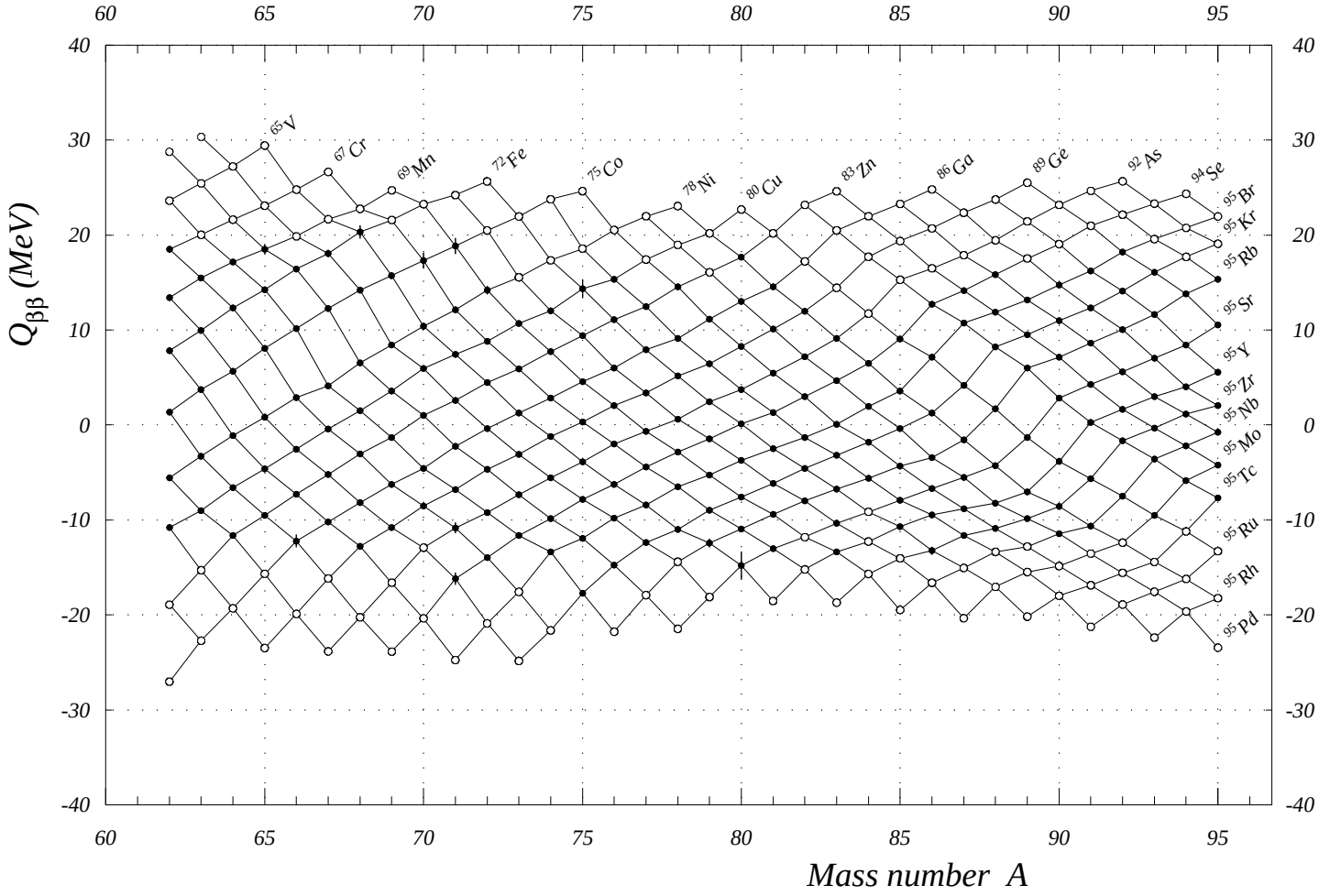

*Fig. 30. Double β-decay energies A = 92 to 125*

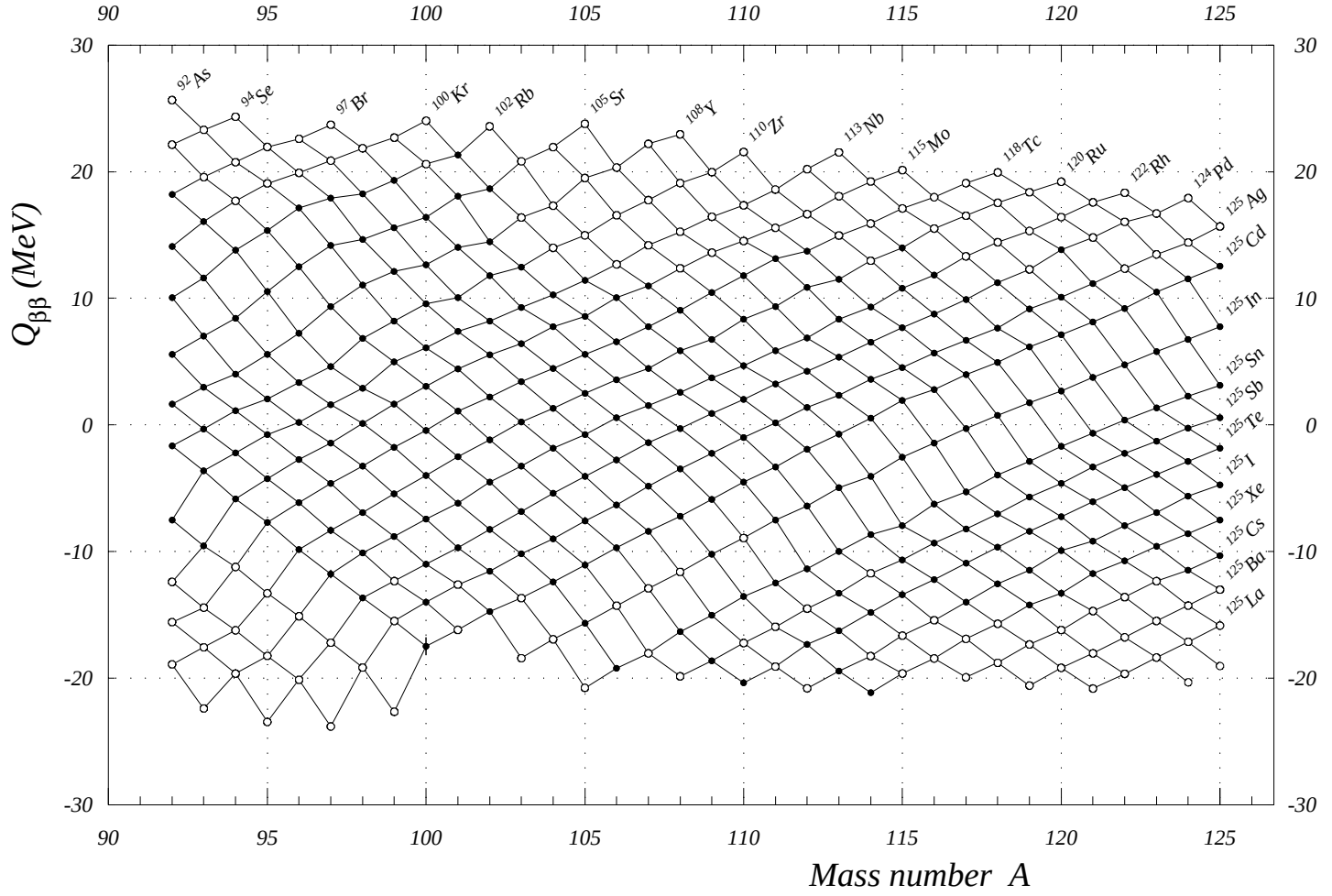

*Fig. 31. Double β-decay energies A = 122 to 155*

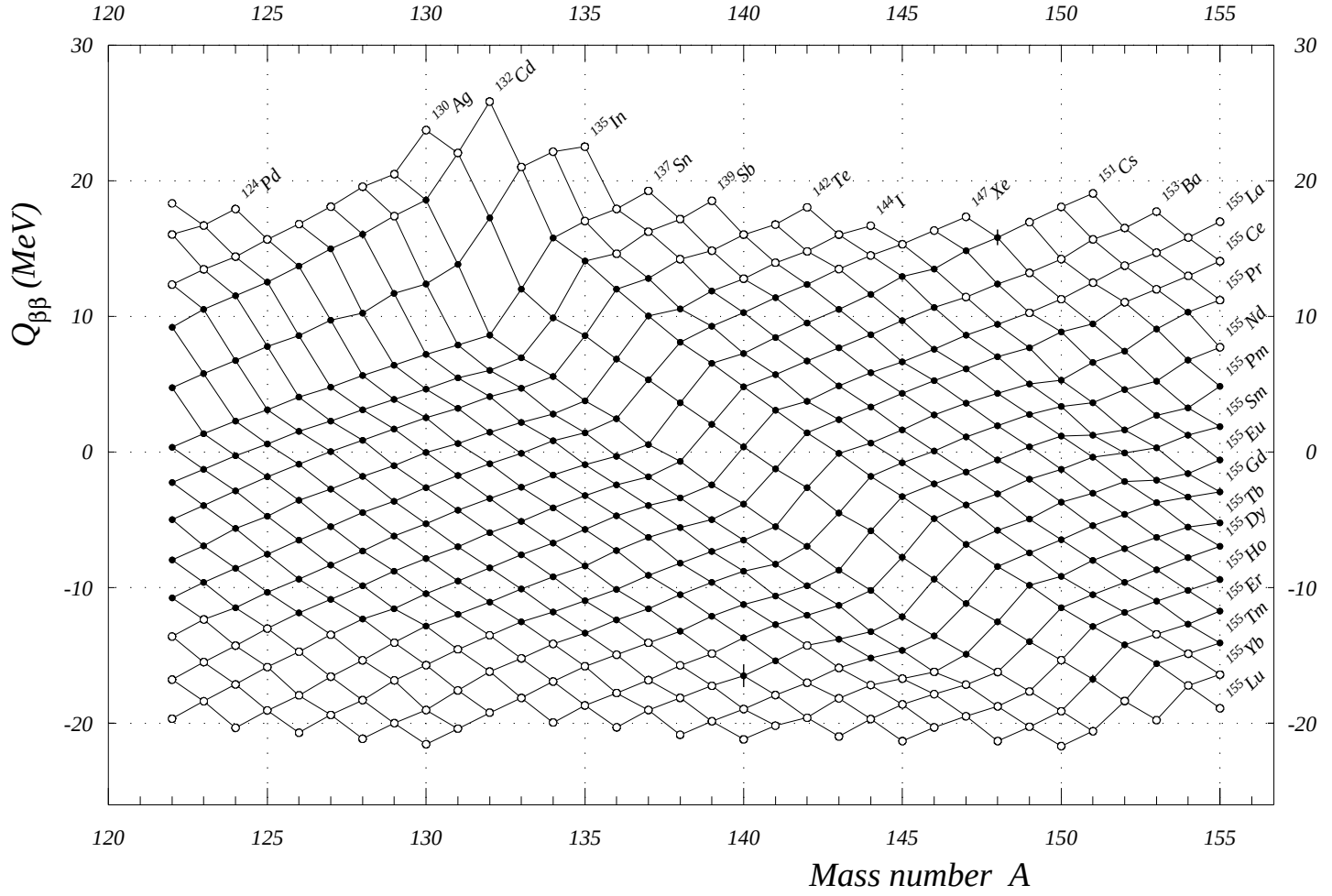

*Fig. 32. Double β-decay energies A = 152 to 185*

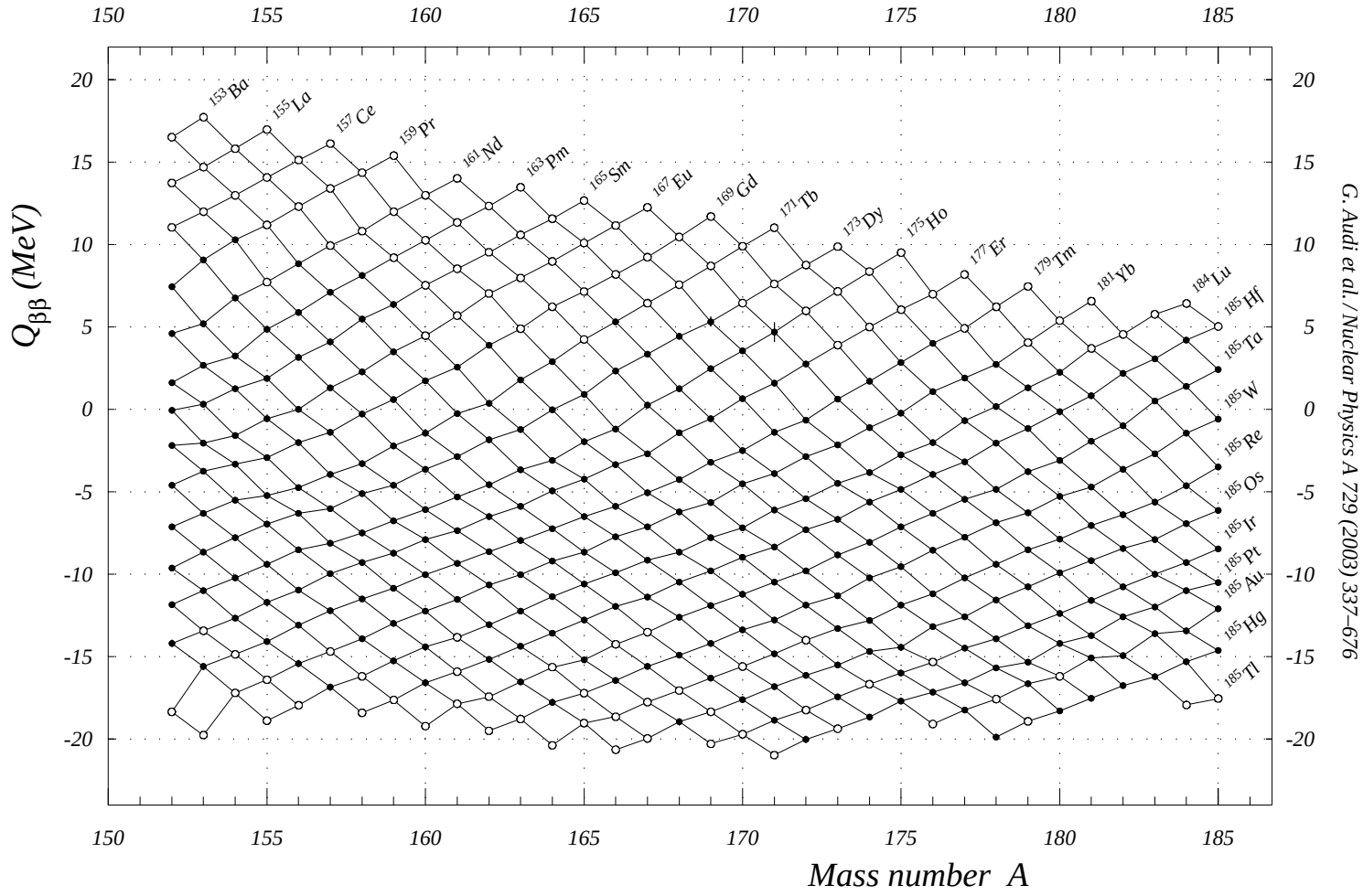

*Fig. 33. Double β-decay energies  A = 182 to 215*

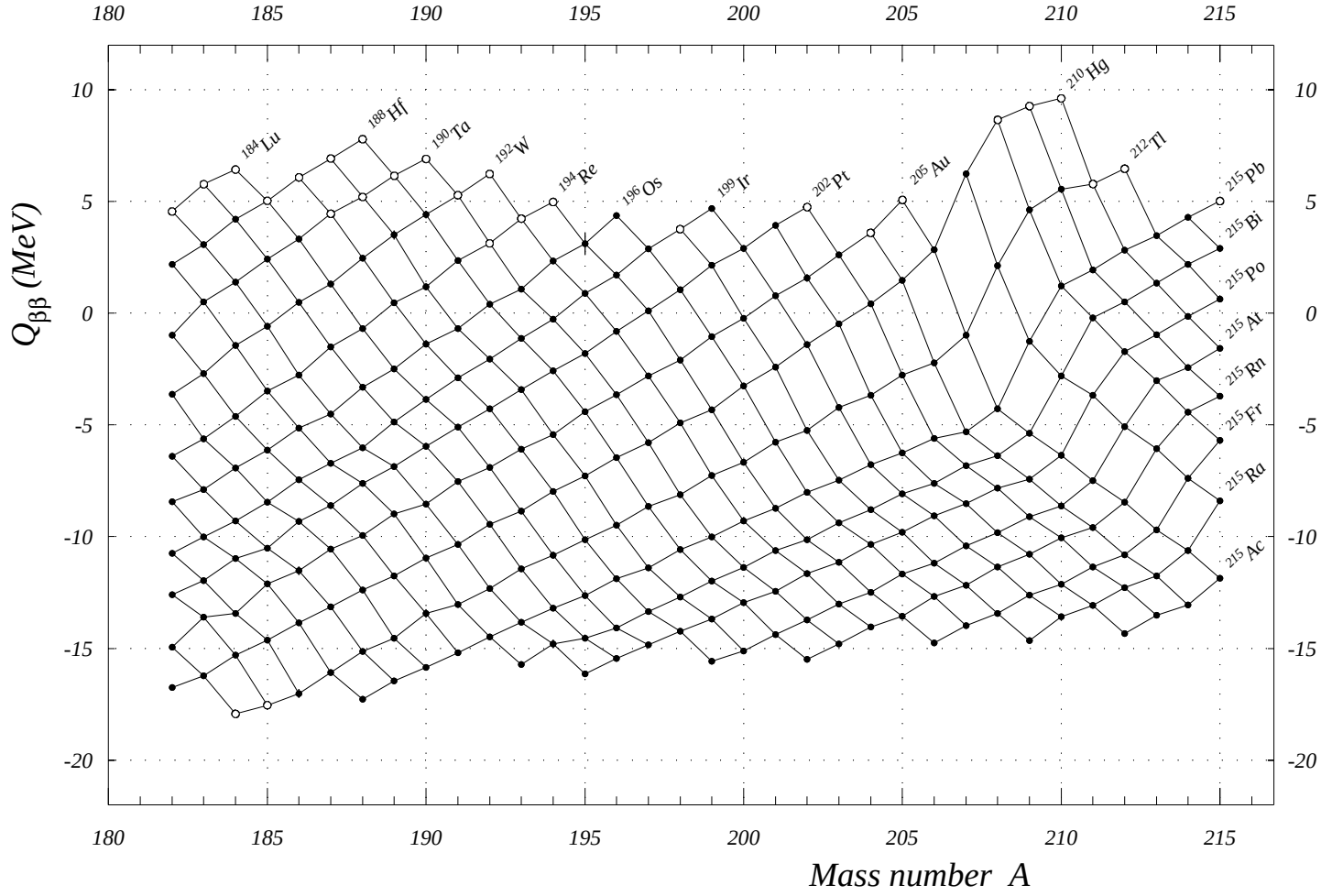

*Fig. 34. Double β-decay energies A = 212 to 245*

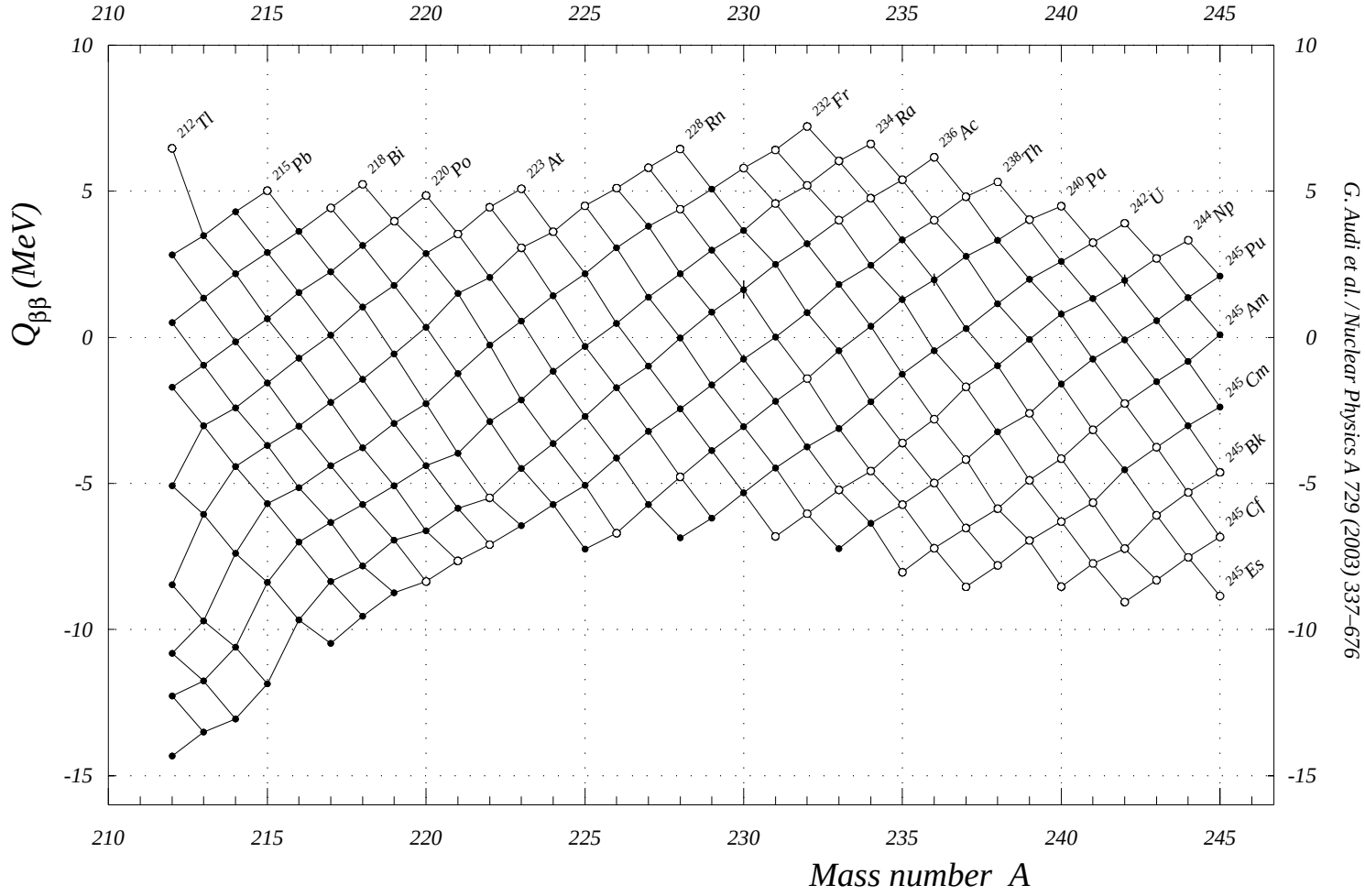

*Fig. 35. Double β-decay energies A = 242 to 275*

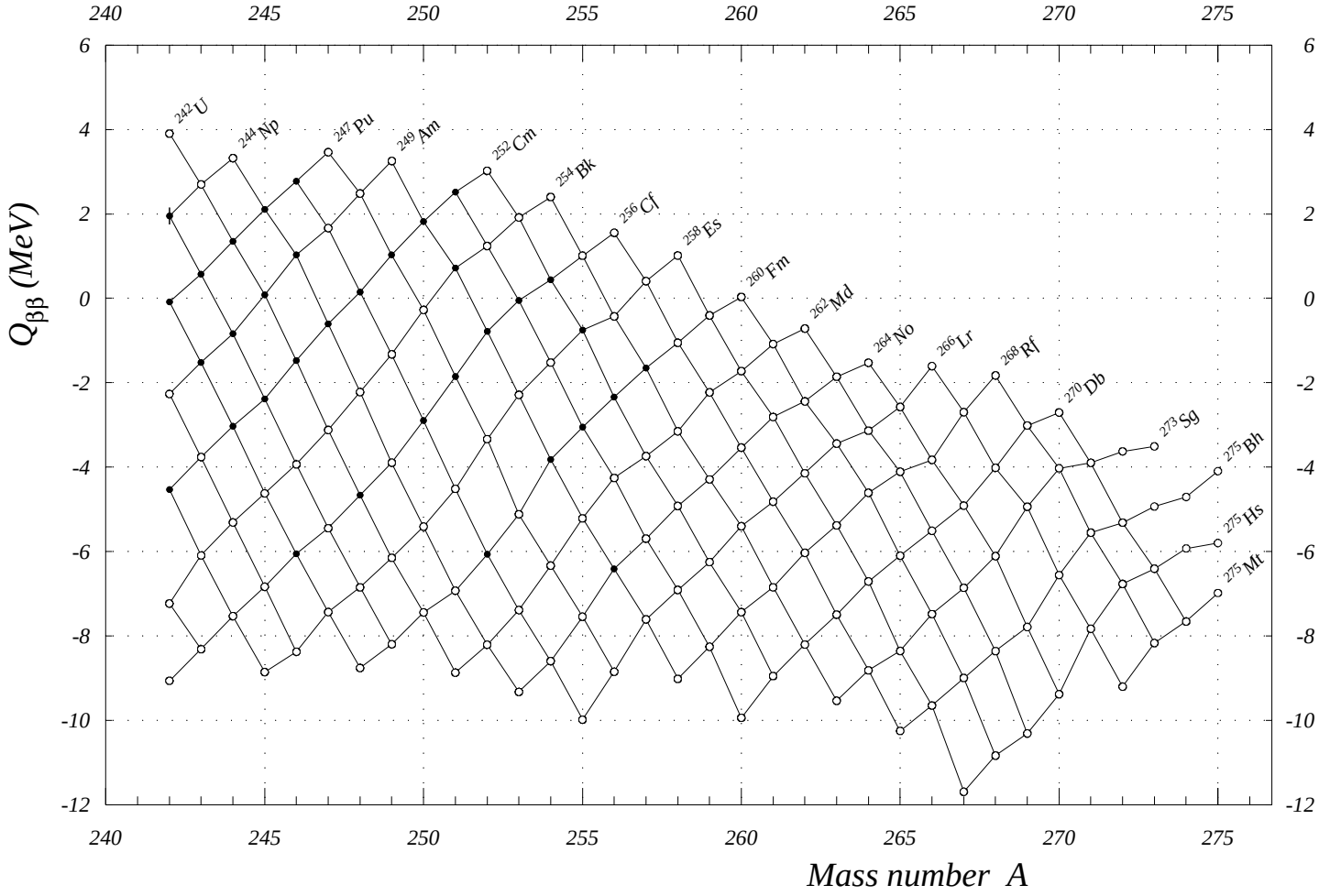

*Fig. 36. Double β-decay energies A = 257 to 290*