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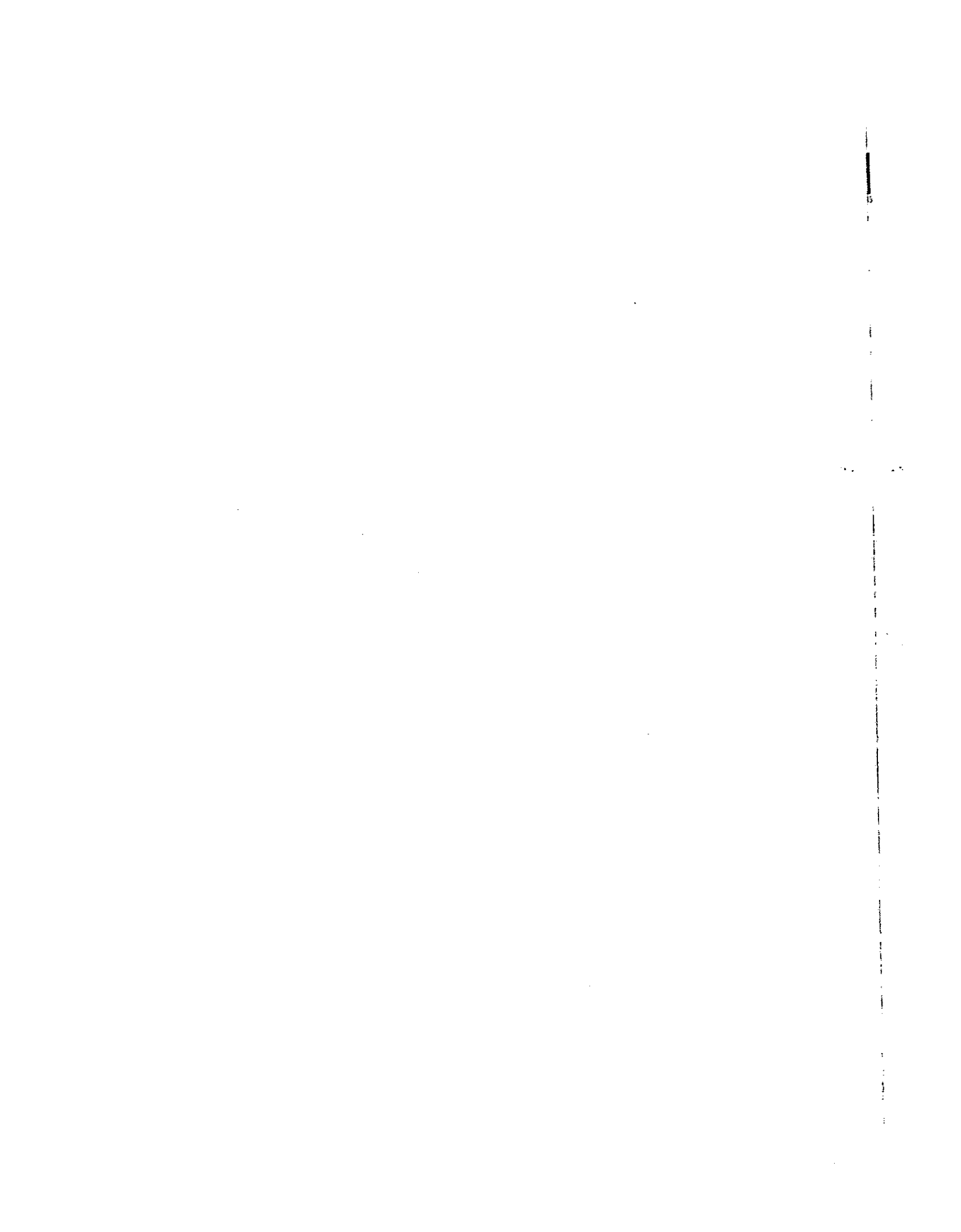
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Summary

In the course of the investigation of the atomic nucleus a considerable body of knowledge of properties of the nuclear energy levels associated with the different bound nucleon configurations has been accumulated to date. As a consequence of interactions of the nucleons in the atomic nucleus among themselves as well as with the electromagnetic field and the fields of weak interactions, many radiation processes occur in nuclear reactions and spontaneous decays in which the initial nucleon configuration is changed into other ones. The transition probabilities for these processes essentially depend on the properties of the nuclear energy levels as well as on the interactions involved.

In the concise isobar charts, data on binding energies of protons and neutrons in the ground state and excitation energies for low-lying nuclear energy levels, both of which are of great interest for transition processes as well as questions of nuclear structure, are displayed. Also, quantum numbers for angular momentum and parity are shown for these energy levels. For the stable nuclei, data for the relative abundances, and for unstable nucleon configurations, the transition probabilities are included in the data displayed. Information on branching ratios, e. g., for β -decay, electron capture, γ -ray transitions, or internal conversion processes are also included. The isobar nuclei, characterized by the same atomic number A , which is the sum of proton number Z and neutron number N , are written in one row according to increasing values of $I_3 = (Z - N)/2$. The isobars are arranged in the vertical direction. Due to the representation chosen for the atomic nuclei, in many cases a very clear first survey of systematic properties of nuclear energy states as well as spontaneous decay processes is achieved.



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