SYMMETRY AND ADDITIONAL SELECTION RULES

V. K. Tartakovsky

The new additional selection rules for the multipole transitions in the nuclei with the use of nuclear symmetry are established. It has been shown that using such rules may significantly simplify computing matrix elements of transitions, and also investigating some peculiarities in the nuclear structure.

Keywords: selection rules, multipole transitions in the nuclei, nuclear symmetry, peculiarities in the nuclear structure.