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**Algebraic methods in evolutionary genetics.**
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Author's summary: "This paper is a survey of some results obtained in evolutionary genetics by algebraic methods. The main topics: (1) Some special classes of algebras arising in population genetics (stochastic, baric, Bernsteinian, genetic, etc.). (2) The Bernstein problem and the stationary genetic structure. (3) The convergence to an equilibrium, the rate of convergence. (4) The exact linearization of the evolutionary equation. (5) Exact formulae for the evolutionary spectrum and for the solution of the evolutionary equation."