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A Computer Model for a Theory of Evolution

Abstract. Computer models and computer simulations are crucial for understanding complex phenomena because they compel the explicit enumeration of all variables and the exact specification of all relations between them. In this paper we discuss a computer model for a phenotypical theory of evolution which, in our opinion, is well suited to simulate the complex dependence of speciation on both internal and external factors, through their influences on the fertility factor. Some of these dependences are investigated through simulations.