



Quantitative approximation of the discrete Moran process by a Wright–Fisher diffusion

Gorgui Gackou¹ · Arnaud Guillin¹ · Arnaud Personne¹

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Abstract

The Moran discrete process and the Wright–Fisher model are the most popular models in population genetics. The Wright–Fisher diffusion is commonly used as an approximation in order to understand the dynamics of population genetics models. Here, we give a quantitative large-population limit of the error occurring by using the approximating diffusion in the presence of weak selection and weak immigration in one dimension. The approach is robust enough to consider the case where selection and immigration are Markovian processes, whose large-population limit is either a finite state jump process, or a diffusion process.

Mathematics Subject Classification 60J70

1 Introduction

Diffusion approximation is a technique in which a complicated and intractable (as the dimension increases) discrete Markovian process is replaced by an appropriate diffusion which is generally easier to study. This technique is used in many domains and genetics and population dynamics are no exceptions to the rule. Two of the main models used in population dynamics are the Wright–Fisher (see for example Fisher 1922, 1930; Wright 1931, 1945) and the Moran model (Moran 1958) which describe the evolution of a population having a constant size and subject to immigration and environmental variations. In the case of a large population limit, it is well known that

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