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Research Articles

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Asymptotic d
Leslie–G

Institute o

Departme
Texas Tech Uni

We propose a modified discrete-
tions to study competition outco
parameter that measures intrasp
population, either one or both p
system can have up to four coex
itive maps, it is shown that the
outcomes then depend not only
initial population distributions.

Keywords: Competition; saddle

Mathematics Subject Classificat

1. Introduction

Discrete-time models of differen
lations with non-overlapping ge
are the two well-known examp
population dynamics [2]. Altho
decreasing functions of the pop
ble competition while the Bever
individuals of the same popula
cascade of period-doubling bifu
possesses only simple equilibriu

Based on these two classic
tems developed to model popul