

Modelling and Simulation

Practical Assignment I: The Chirikov map

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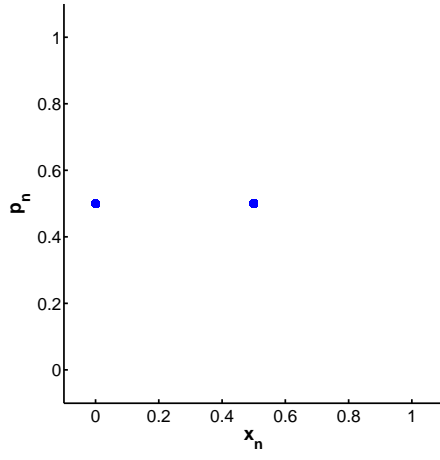
I. INTRODUCTION

II. EXPERIMENTS

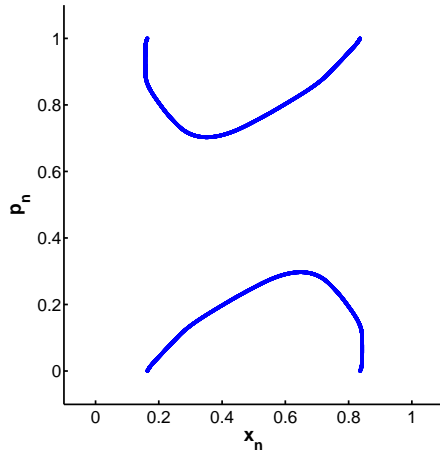
I. FIXED K

II. VARIABLE K

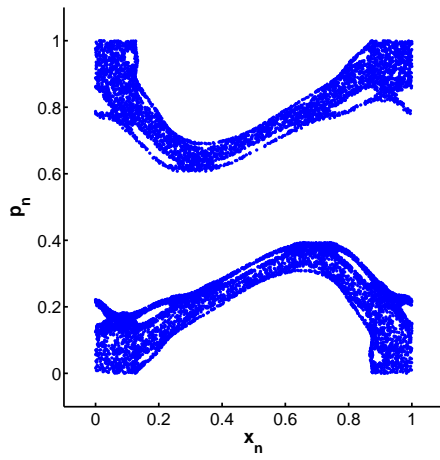
III. CONCLUSION



(a) $x_n = 0.5, p_n = 0.5$



(b) $x_n = 1.58 \times 10^{-1}, p_n = 9.71 \times 10^{-1}$



(c) $x_n = 1.27 \times 10^{-1}, p_n = 9.13 \times 10^{-1}$

Figure 1