PHYSICS 6268 Non-Linear Dynamics
Project Pre-proposal
Periodically forced Duffing Oscillator

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Introduction

- Understand forced vibrations of the beam as measured by displacement from the center position
- Periodic force

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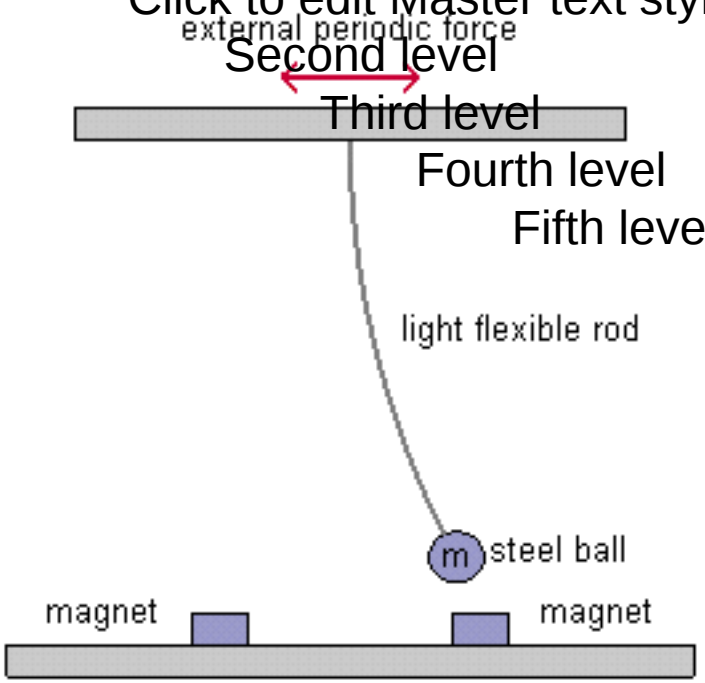
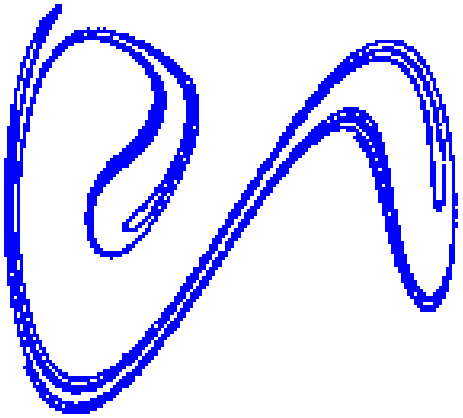
Second level
Third level
Fourth level
Fifth level



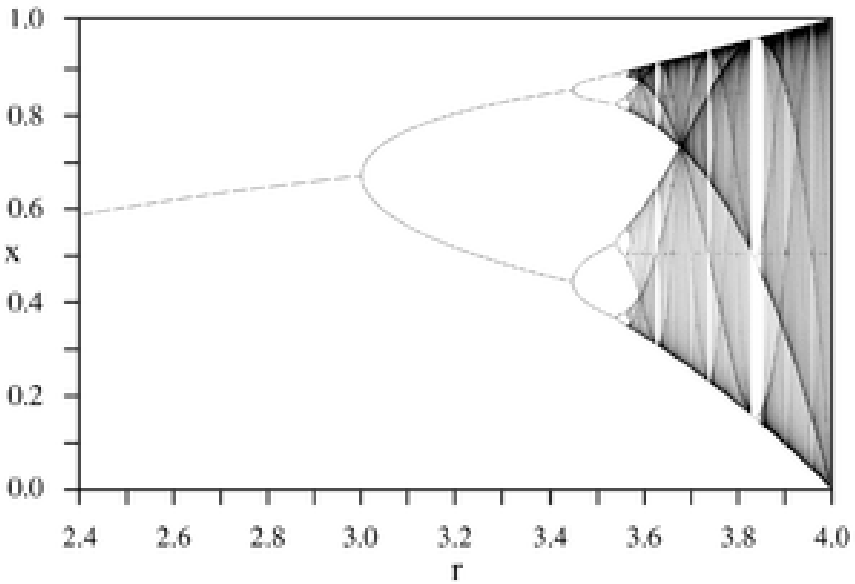
Theoretical/Analytical aspect



Experimental aspect

Expected results

Period doubling bifurcations
Strange attractors



Different forcing functions

Explore what happens to the attractor and the bifurcation diagram when we use different forcing functions e.g.

Square wave

Saw-tooth wave

Super-positioned sinusoidal waves