RNA STRUCTURE ANALYSIS USING THE RIGID BLOCK MODEL

BY MAURICIO ESGUERRA

A dissertation submitted to Dr. Wilma K. Olson Group Rutgers, The State University of New Jersey

ABSTRACT OF THE DISSERTATION

RNA Structure Analysis Using the Rigid Block Model

by Mauricio Esguerra
Dissertation Director: Wilma K. Olson

RNA structure is in the forefront of our understanding of the beginning of life, also the mechanisms in life regulation. The life regulation part is new, not ten years old. Primodial in understanding the cell. The practical purpuse for the chemist is to understand how RNA folds. It's mainly a mechanical problem, therefore it's not foreing to use statistical mechanics methods, combined with detailed knownledge of atomic level structure.

Table of Contents

Αb	ostract	ii
1.	Introduction	1
2.	RNA Base Steps	2
3.	Introduction	3
4	Introduction	1

Chapter 1 Introduction

This is the introductory chapter.

Chapter 2 RNA Base Steps

This chapter deals with how starting from a backbone based view of RNA, we can make an interpretation at the step level using the block model.

Chapter 3 Introduction

This is the introductory chapter.

Chapter 4 Introduction

This is the introductory chapter.