

# The Saari's Conjecture in Celestial Mechanics

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**Abstract.** In 1969, D. Saari conjectured that the only solutions of the Newtonian  $n$ -body problem that have constant moment of inertia  $I$  are the relative equilibria. In the case  $n = 3$ , there exists a computer assisted proof of this conjecture given by R. Moeckel in 2003 [10], and it is an open problem for  $n \geq 4$ . Denoting by  $U$  the potential energy, the extended Saari's conjecture establishes that if along an orbit of the  $n$ -body problem  $IU^2$  is constant, then the orbit is a homographic solution, that is a solution where the configuration of the bodies is similar to itself when  $t$  varies. In this paper we give a discussion of both conjectures and a survey of the proof of the last one for a huge set of initial data. The survey was obtained substantially from our general paper on this subject which will appear published in TAMS, [5]. Since  $I$  constant implies  $IU^2$  is also constant, the results obtained also hold for the original Saari's conjecture.

**Keywords:** three-body problem, homographic solutions, central configurations

**PACS:** 70F10, 70H05

## INTRODUCTION

In late's 60's Donald G. Saari, was interested in the study of bounded motions in the  $n$ -body problem, so after a deep analysis of these kind of solutions, in 1969 postulates his famous conjecture which appears firstly in [14]: *In the Newtonian  $n$ -body problem, if along a solution the size of the configuration represented by the moment of inertia  $I$  is constant, then the solution is a relative equilibrium*. In other words: Newtonian particle systems of constant moment of inertia behave like rigid bodies.

In this paper we are interested in the analysis of an extension of the above conjecture. Denoting by  $U$  to the potential energy of the system, the function  $UI^{1/2}$  is a homogeneous function with degree of homogeneity equals zero, which means that it is invariant under contractions and expansions of the configuration, and since  $U$  and  $I$  depend only on mutual distances,  $UI^{1/2}$  is also invariant under rotations, therefore this function measures how the shape of the configuration is changing,  $UI^{1/2}$  is called *the configuration measure*. A solution of the  $n$ -body problem is homographic if the configuration of the particles remains similar with itself for all time. The configuration measure  $UI^{1/2}$  is very useful for the analysis of the homographic motions. The extension of Saari's conjecture known as the homographic Saari's conjecture states that: *In the Newtonian  $n$ -body problem every solution with constant configuration measure is a homographic solution*.

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## **Table of Contents Eurem 88 Vol 3 Biology Institute Of Physics Conference Series No 93**

1. Understanding the eBook Eurem 88 Vol 3 Biology Institute Of Physics Conference Series No 93
  - The Rise of Digital Reading Eurem 88 Vol 3 Biology Institute Of Physics Conference Series No 93
  - Advantages of eBooks Over Traditional Books
2. Identifying Eurem 88 Vol 3 Biology Institute Of Physics Conference Series No 93
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Eurem 88 Vol 3 Biology Institute Of Physics Conference Series No 93
  - User-Friendly Interface
4. Exploring eBook Recommendations from Eurem 88 Vol 3 Biology Institute Of Physics Conference Series No 93
  - Personalized Recommendations
  - Eurem 88 Vol 3 Biology Institute Of Physics Conference Series No 93 User Reviews and Ratings
  - Eurem 88 Vol 3 Biology Institute Of Physics Conference Series No 93 and Bestseller Lists

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  - Eurem 88 Vol 3 Biology Institute Of Physics Conference Series No 93 eBook Subscription Services
  - Eurem 88 Vol 3 Biology Institute Of Physics Conference Series No 93 Budget-Friendly Options
6. Navigating Eurem 88 Vol 3 Biology Institute Of Physics Conference Series No 93 eBook Formats
  - ePub, PDF, MOBI, and More
  - Eurem 88 Vol 3 Biology Institute Of Physics Conference Series No 93 Compatibility with Devices
  - Eurem 88 Vol 3 Biology Institute Of Physics Conference Series No 93 Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Eurem 88 Vol 3 Biology Institute Of Physics Conference Series No 93
  - Highlighting and Note-Taking Eurem 88 Vol 3 Biology Institute Of Physics Conference Series No 93
  - Interactive Elements Eurem 88 Vol 3 Biology Institute Of Physics Conference Series No 93
8. Staying Engaged with Eurem 88 Vol 3 Biology Institute Of Physics Conference Series No 93
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Eurem 88 Vol 3 Biology Institute Of Physics Conference Series No 93
9. Balancing eBooks and Physical Books Eurem 88 Vol 3 Biology Institute Of Physics Conference Series No 93
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Eurem 88 Vol 3 Biology Institute Of Physics Conference Series No 93
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Eurem 88 Vol 3 Biology Institute Of Physics Conference Series No 93
  - Setting Reading Goals Eurem 88 Vol 3 Biology Institute Of Physics Conference Series No 93
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Eurem 88 Vol 3 Biology Institute Of Physics Conference Series No 93
  - Fact-Checking eBook Content of Eurem 88 Vol 3 Biology Institute Of Physics Conference Series No 93
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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