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**Josefina Casasayas
and Jaume Llibre**

**Qualitative analysis
of the anisotropic
Kepler problem**

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Qualitative Analysis Of The Anisotropic Kepler Problem Memoirs Of The American Mathematical Society 31

Josefina Casasayas,Jaume Llibre



Qualitative Analysis Of The Anisotropic Kepler Problem Memoirs Of The American Mathematical Society 31:

Qualitative Analysis of the Anisotropic Kepler Problem Josefina Casasayas,Jaume Llibre,1984 This paper gives a qualitative analysis of the flow of the anisotropic Kepler problem described by a Hamiltonian system as introduced by Gutzwiller and later studied by Devaney **Books in Series, 1876-1949** R.R. Bowker Company,1982 *Qualitative Analysis of the Anisotropic Kepler Problem* Josefina Casasayas,Universitat de Barcelona. Departament de Teoria de Funcions,2007 **Variations on a Theme by Kepler** Victor Guillemin,Shlomo Sternberg, This book is based on the Colloquium Lectures presented by Shlomo Sternberg in 1990 The authors delve into the mysterious role that groups especially Lie groups play in revealing the laws of nature by focusing on the familiar example of Kepler motion the motion of a planet under the attraction of the sun according to Kepler s laws Newton realized that Kepler s second law that equal areas are swept out in equal times has to do with the fact that the force is directed radially to the sun Kepler s second law is really the assertion of the conservation of angular momentum reflecting the rotational symmetry of the system about the origin of the force In today s language we would say that the group $O(3)$ the orthogonal group in three dimensions is responsible for Kepler s second law By the end of the nineteenth century the inverse square law of attraction was seen to have $O(4)$ symmetry where $O(4)$ acts on a portion of the six dimensional phase space of the planet Even larger groups h The remainder of the book is aimed at specialists It begins with a demonstration that the Kepler problem and the hydrogen atom exhibit $O(4)$ symmetry and that the form of this symmetry determines the inverse square law in classical mechanics and the spectrum of the hydrogen atom in quantum mechanics The space of regularized elliptical motions of the Kepler problem also known as the Kepler manifold plays a central role in this book The last portion of the book studies the various cosmological models in this same conformal class and having varying isometry groups from the viewpoint of projective geometry The computation of the hydrogen spectrum provides an illustration of the principle that enlarging the phase space can simplify the equations of motion in the classical setting and aid in the quantization problem in the quantum setting The authors provide a short summary of the homological quantization of constraints and a list of recent applications to many interesting finite dimensional set

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