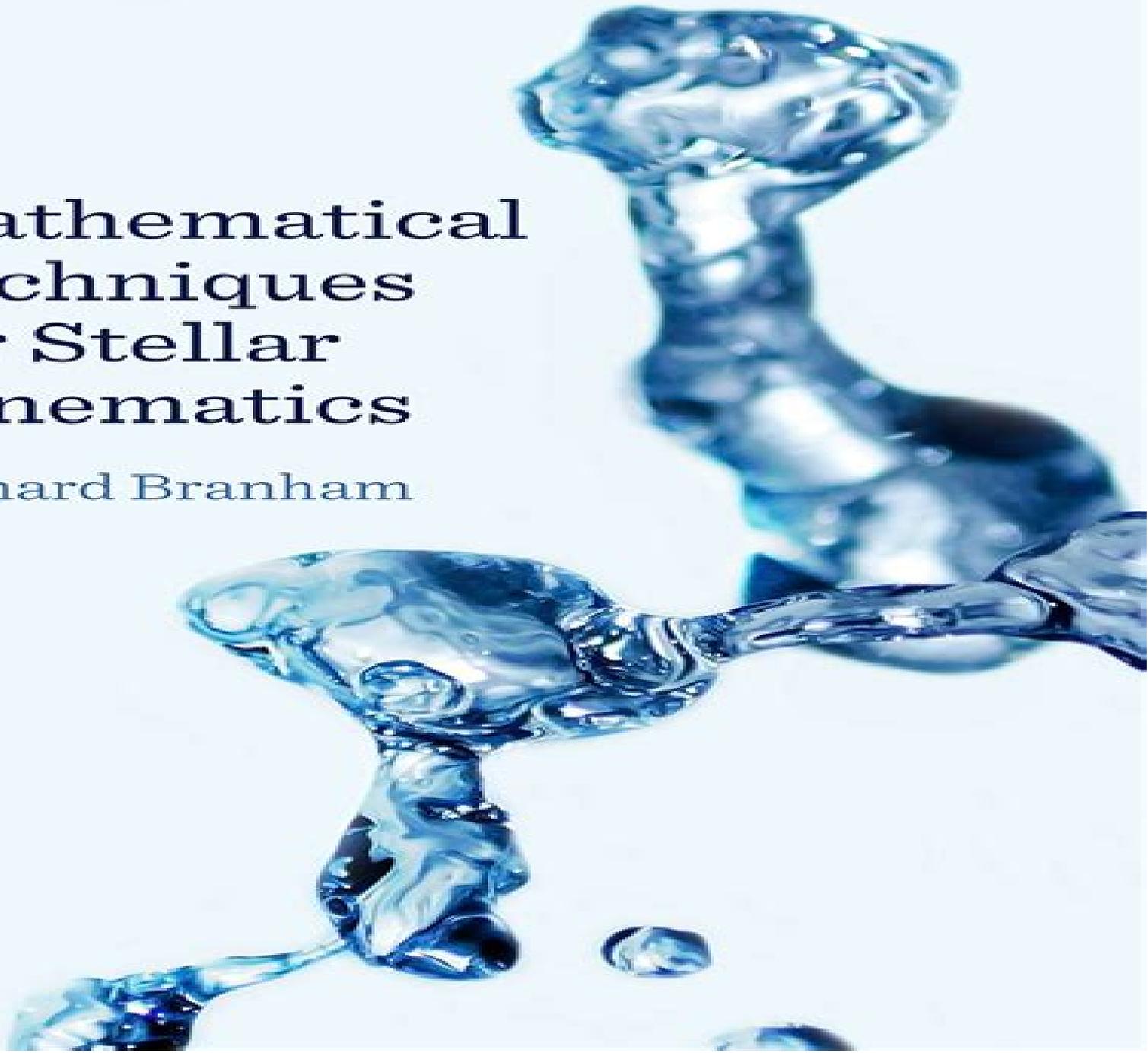


Mathematical Techniques for Stellar Kinematics

Richard Branham



Stellar Kinematics

Astronomisches Rechen-Institut



Stellar Kinematics:

Mathematical Techniques for Stellar Kinematics Richard Branham, 2022-07-04 Stellar kinematics is concerned with the movements of stars in the vicinity of the Sun as well as with some aspects of the structure of our Galaxy in the same vicinity This book discusses mathematical techniques developed for these studies some classical and employed since the 19th century such as least squares and others of more recent origin and not included in other texts dedicated to stellar kinematics including total least squares in use since the 1980s and semi definite programming developed since the 1990s Other useful methods test for the randomness of data and ways to eliminate or minimize discordant data Professional astronomers and students of astronomy will be interested in these techniques many developed for use in other areas of science and engineering Likewise engineers and mathematicians may be unaware of how their disciplines are applicable to a field such as stellar kinematics

Stellar Kinematics William Marshall Smart, 1968 *Stellar Kinematics in Disk Galaxies* Joris Gerssen, 2000

Kinematics and Dynamics of Galactic Stellar Populations Rafael Cubarsi, 2018-07-27 Stellar dynamics is an interdisciplinary field where mathematics statistics physics and astronomy overlap The approaches to studying a stellar system include dealing with the collisionless Boltzmann equation the Chandrasekhar equations and stellar hydrodynamic equations which are comparable to the equations of motion of a compressible viscous fluid Their equivalence gives rise to the closure problem connected with the higher order moments of the stellar velocity distribution which is explained and solved for maximum entropy distributions and for any velocity distribution function depending on a polynomial function in the velocity variables On the other hand the Milky Way kinematics in the solar neighbourhood needs to be described as a mixture distribution accounting for the stellar populations composing the Galactic components As such the book offers a statistical study according to the moments and cumulants of a population mixture and a dynamical approach according to a superposition of Chandrasekhar stellar systems connected with the potential function and the symmetries of the model

Stellar Kinematics of Merging Galaxies: Clues to the Origins of Elliptical Galaxies, 1998 There is significant evidence suggesting that mergers of galaxies produce elliptical galaxies To determine whether the known kinematic properties of elliptical galaxies are consistent with those of their suggested progenitors we have examined the stellar velocity dispersion in 11 nuclear regions within starbursting infrared luminous galaxies All of these galaxies are in some stage of merging The new data are presented and statistically analyzed in combination with data from the literature We find that the kinematic and photometric properties of these galaxies suggest that they are the progenitors of low luminosity L

The Hubble Constant Tension Eleonora Di Valentino, Dillon Brout, 2024-07-09 This book presents the first comprehensive exploration of the state of this well studied and thus unsolved mystery of the value of the Hubble constant Chapters covering data systematics independent methodologies and theoretical explanations are authored by distinguished subject matter experts Tailored for scientists in the field or adjacent fields this book provides a resource of insights and also an in depth

background sufficient for motivating future study Key Features Introduction Written by the Nobel Laureate Adam Riess Measurement Techniques Gain a profound understanding of the leading Hubble constant measurement techniques from parallax and masers to supernovae and cosmic chronometers dissected by leading authorities on each Systematic Errors A deep dive into the complexities of data Experts scrutinize potential sources of systematics that may contribute to the observed disagreements offering a nuanced view of the challenges in Hubble constant determinations Theoretical Explanations and Progress A review of the theoretical explanations some that are still standing and some that have been ruled out all of which have led to scientific progress toward the truth A Comprehensive Take This book covers every key and influential aspect to the dilemma of the Hubble tension to date and has gathered world leading voices on each respective topic

The Magellanic System (IAU S256) International Astronomical Union. Symposium,2009-04-16 This volume presents the most complete and up to date accounts of our understanding of the Magellanic Clouds and the astrophysical processes within them Observations of these nearby dwarf galaxies continue to advance calibrate and challenge our knowledge of the cosmos They are rich in gas they have been actively forming stars throughout their history and they display a wealth of dynamical features Poor in metals they serve as a stepping stone towards understanding the high redshift Universe In IAU Symposium 256 scientists from vastly different fields of research discuss galactic dynamics the physics of the interstellar medium and star formation and the fundamental properties and evolution of stars New insight was gained by crossing the traditional boundaries of these fields placing the findings in the context of the structure and evolution of this interacting pair of galaxies uniquely available to our ever more powerful telescopes and computational machinery

Understanding the Formation and Properties of Galaxies from Stellar Kinematics Felix Schulze,2021 [The Center of the Galaxy](#) Mark Morris,2012-12-06 The investigation of the Galactic nucleus and its surroundings is necessarily a modern endeavor for traditional observations made at visual wavelengths have not even begun to penetrate the veil of 30 magnitudes of visual extinction that intercedes On the other hand infrared and especially radio observers find a relatively unobstructed view of the central portion of the Galaxy so the study of this arena has proceeded apace with the development of these branches of astronomy Thus it is no accident that the first IAU sponsored conference to be held on the Galactic center is timed to coincide with the initiation or the immediate aftermath of major technical developments at long wavelengths including infrared array detectors millimeter wavelength aperture synthesis and self calibration and refined deconvolution algorithms in aperture synthesis radio astronomy The center of the Galaxy is also accessible to X and gamma ray observers and progress at high energies has been steady especially as imaging capabilities are being realized at X ray wavelengths However one might expect that the revolution in the high energy domain is still ahead of us as instruments with larger collecting areas and improved spatial resolution are now being developed The youth of this subject is evidenced by the relatively small number of meetings that have been devoted to it

Literature 1979, Part 1 Siegfried Böhme,Ute Esser,Professor Dr. Walter

Fricke, Inge Heinrich, Wilfried Hofmann, Dietlinde Krahn, Dorothea Rosa, Dr. Lutz D. Schmädel, Gert Zech, 2013-04-18

Groups of Galaxies in the Nearby Universe Ivo Saviane, Valentin D. Ivanov, Jordanka Borissova, 2007-08-01 For every galaxy in the field or in clusters there are about three galaxies in groups The Milky Way itself resides in a group and groups can be found at high redshift The current generation of 10 m class telescopes and space facilities allows the observation of the members of nearby groups with exquisite detail and their properties can be correlated with the global properties of their host group Groups in the local Universe offer us the chance to study galaxies in environments characterized by strong interactions In the cosmological context groups trace large scale structures better than clusters and the evolution of groups and clusters appears to be related All these aspects of research on groups of galaxies are summarized in this book written by scientists working in various fields

Stellar Kinematics from Hipparcos Proper Motions, 2000 From Hipparcos proper motions the authors analyze the local kinematics of the Milky Way from the young O B5 stars classical Cepheids and the late type K M giants Comparing the derived results the kinematical discrepancies between each subset of stars are analyzed and the possible reasons for the kinematical differences are discussed The results of the solar motion relative to the stellar type are in good agreement with those given by Dehnen and Binney for the main sequence stars The authors determined very stable solutions for the components $u_{\text{sub } 0}$ and $w_{\text{sub } 0}$ The component $v_{\text{sub } 0}$ varies in a wide range depending on stellar age The Galactic rotation derived from the O B5 stars approx 270 km s⁻¹ is remarkably larger than the International Astronomical Union IAU recommended value Analyzing Hipparcos proper motions from the O B5 stars they have identified a clear stellar warping motion that is an asystematic rotation of stars around the axis pointing to the Galactic center in the sense of increasing the inclination of the H I warp The solution from the classical Cepheids seems to suggest a slight contracting motion of Cepheids along the direction of the Galactic rotation The real feature of the contraction should be carefully investigated further

3D Spectroscopy in Astronomy E. Mediavilla, 2010-01-28 This book contains lectures on 3D spectroscopy techniques and data from the seventeenth Winter School of the Canary Islands Astrophysics Institute

Literature 1988, Part 2 Astronomisches Rechen-Institut, 2013-06-29 From the reviews Astronomy and Astrophysics Abstracts has appeared in semi annual volumes since 1969 and it has already become one of the fundamental publications in the fields of astronomy astrophysics and neighbouring sciences It is the most important English language abstracting journal in the mentioned branches The abstracts are classified under more than a hundred subject categories thus permitting a quick survey of the whole extended material The AAA is a valuable and important publication for all students and scientists working in the fields of astronomy and related sciences As such it represents a necessary ingredient of any astronomical library all over the world Space Science Reviews 1 Dividing the whole field plus related subjects into 108 categories each work is numbered and most are accompanied by brief abstracts Fairly comprehensive cross referencing links relevant papers to more than one category and exhaustive author and subject indices are to be found at the back making the catalogues easy to

use The series appears to be so complete in its coverage and always less than a year out of date that I shall certainly have to make a little more space on those shelves for future volumes The Observatory Magazine 2 Dynamics of Young Star Clusters and Associations Cathie Clarke, Robert D. Mathieu, Iain Neill Reid, 2015-09-11 Where do most stars and the planetary systems that surround them in the Milky Way form What determines whether a young star cluster remains bound such as an open or globular cluster or disperses to join the field stars in the disc of the Galaxy These questions not only impact understanding of the origins of stars and planetary systems like our own and the potential for life to emerge that they represent but also galaxy formation and evolution and ultimately the story of star formation over cosmic time in the Universe This volume will help readers understand our current views concerning the answers to these questions as well as frame new questions that will be answered by the European Space Agency's Gaia satellite that was launched in late 2013 The book contains the elaborated notes of lectures given at the 42nd Saas Fee Advanced Course Dynamics of Young Star Clusters Associations by Cathie Clarke University of Cambridge who presents the theory of star formation and dynamical evolution of stellar systems Robert Mathieu University of Wisconsin who discusses the kinematics of star clusters and associations and I Neill Reid Space Telescope Science Institute who provides an overview of the stellar populations in the Milky Way and speculates on from whence came the Sun As part of the Saas Fee Advanced Course Series the book offers an in depth introduction to the field serving as a starting point for Ph D research and as a reference work for professional astrophysicists

Galactic Astronomy James Binney, Michael Merrifield, 1998-09-06 This is a treatment of the phenomenology of galaxies The text draws on observations of both our own galaxy the Milky Way and of external galaxies It emphasizes the observational basis for current understanding of galactic astronomy in the late 90s **Stellar Kinematics and Spiral**

Arms Andrew Tipton Young, 1961 *Stellar Kinematics and the K-Effect. (Reprinted from the Monthly Notices of the Royal Astronomical Society.)*. Edward Arthur MILNE, 1935 **Stellar Kinematics and the K-effect** Edward Arthur Milne, 1935

The Central Kpc of Starbursts and AGN Johan Hendrik Knapen, 2001 Annotation Papers from a May 2001 conference on the central kpc region in AGN and starbursts examine the connection between an AGN and a starburst the physics of star formation and non stellar activity and the relations between an AGN and the properties of its host galaxy Progress in imaging technology is reported in papers on the Hubble space telescope observations X ray results obtained with new orbiting observatories and imaging and spectroscopy from ground based optical near infrared telescopes Numerical simulations of gas dynamics relationships between massive black holes and AGN activity and attempts to quantify relations between star formation and gas disks are discussed Annotation c Book News Inc Portland OR booknews com

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