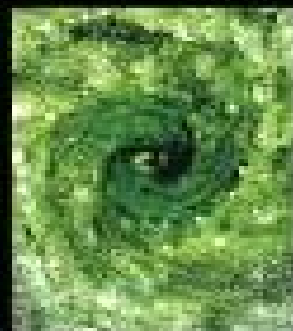


# **New Extragalactic Perspectives in the New South Africa**

**Edited by  
David L. Block and J. Mayo Greenberg**



**Kluwer Academic Publishers**

# New Extragalactic Perspectives In The New South Africa

**Bruno Guiderdoni**



## **New Extragalactic Perspectives In The New South Africa:**

New Extragalactic Perspectives in the New South Africa David L. Block, J. Mayo Greenberg, 2012-12-06 The date September 30 1880 The place A private observatory in Hastings on Hudson Profession of the observer A medical doctor The instrument An 11 inch Clark refractor The significance of that night marked one of the truly great turning points in the development of astronomical techniques Dr Henry Draper a wealthy New York medical doctor had secured the first photograph of a nebula a 51 minute exposure on a dry gelatinobromide plate showing the wispy nebulosity of the Orion Nebula By March 1882 Draper had secured an exposure of 137 minutes showing far richer detail of both bright and dark features The rest is history The photographic era heralded in a universe where hints of the presence of cosmic dust were strongly alluded to from star forming regions such as Messier 17 to the Horsehead Nebula in Orion to the striking dark finger in the Cone Nebula to the magnificent dark bands in the plane of our Milky Way Historically astronomers from the very beginning have been afraid of dust **Astronomie Extragalactique Dans L'infrarouge** Gary Allan Mamon, Xuan Thuan Trinh, J. Thanh Van Tran, 1997 *Galaxies and their Masks* David L. Block, Kenneth C. Freeman, Ivânio Puerari, 2010-11-12 Freeman Fellow of the Royal Society *Toward a New Millennium in Galaxy Morphology* David L. Block, Ivânio Puerari, Alan Stockton, DeWet Ferreira, 2012-12-06 South Africa a land of paradigm shifts A land where we are willing to leave behind the old to bravely accept the new What do we need to exit the dark ages in the morphology of galaxies How prevalent is the cherishing of old concepts Traditional morphology has been mask oriented focusing on masks of dust and gas which may constitute only 5 percent of the dynamical mass of a galaxy Some of the world's foremost astronomers flew to South Africa to address morphologically related issues at an International Conference the proceedings of which are contained in this volume Examine predicted extinction curves for primordial dust at high redshift Stars evolve why not dust Read about the breakdown of the Hubble sequence at a redshift of one Explore the morphology of rings the mysteries of metal rich globular clusters vigorous star formation in the Large Magellanic Cloud the world of secular evolution where galaxies change their shapes within one Hubble time And much more Examine a new kinematical classification scheme of the unmasked dust penetrated near infrared images of spiral galaxies This volume contains over 80 refereed contributions including 18 in depth keynote review articles 40 pages of questions and answers a panel discussion transcribed from tape and 24 colour plates The volume is unique in that contributions from both high and low redshift experts are represented at a level readily accessible to postdoctoral students entering the exciting world of morphology whether it be of the local or more distant Universe

*Dynamics of Galaxies* Giuseppe Bertin, 2014-04-21 Provides advanced students with an introduction to modern galactic dynamics and equips them with useful observational and theoretical tools *Molecular Hydrogen in Space* F. Combes, G. Pineau des Forets, 2000-11-06 Molecular hydrogen is the most abundant molecule in the Universe In recent years advances in theory and laboratory experiments coupled with breakthrough observations with important new telescopes and satellites

have revolutionized our understanding of molecular hydrogen in space. It is now possible to address the question of how molecular hydrogen formed in the early Universe and the role it played in the formation of primordial structures. This timely volume presents articles from a host of experts who reviewed this new understanding at an international conference in Paris. This book provides the first multi-disciplinary synthesis of our new understanding of molecular hydrogen. It covers the theory of the physical processes and laboratory experiments as well as the latest observations. It will therefore be an invaluable reference for all students and researchers in astrophysics and cosmology.

*Starbursts Triggers, Nature, and Evolution* Bruno Guiderdoni, 2013-11-11

Starbursts are regions of unusually rapid star formation often located in the central parts of galaxies. They differ from more normal regions of star formation in terms of the throughput of mass and the rapidity with which the gas is consumed. In the last twenty years, extensive observational data at most wavelengths have become available on starbursts, but many important issues remain to be addressed observationally as well as theoretically. How are strong episodes of star formation triggered? What is the quantity of gas converted into stars during bursts? What is the initial mass function of stars in these events? How does the feedback from stars influence the interstellar medium and self-regulate star formation? What is the subsequent chemical and photometric evolution? How do starbursts rule the formation and evolution of galaxies? In recent years, many observational data at different wavelengths (optical, radio, infrared, X-ray) have become available. However, these observations are still fragmentary in the sense that different classes of objects have been observed in different ways and the coverage is not consistently deep or complete. As a consequence, an overall observational picture of starburst galaxies is missing, and theoretical understanding and modelling have remained highly tentative. The purpose of the book *Starbursts Triggers, Nature, and Evolution* was to gather theorists and observers with complementary approaches to the starburst phenomenon in order to summarize the state of the art of the observations and models, emphasizing the consistency of the various viewpoints.

**Dynamical Evolution of Galaxies** Xiaolei Zhang, 2017-12-04

This research monograph presents a new dynamical framework for the study of secular morphological evolution of galaxies along the Hubble sequence. Classical approaches based on Boltzmann's kinetic equation as well as on its moment equation descendants (the Euler and Navier-Stokes fluid equations) are inadequate for treating the maintenance and long-term evolution of systems containing self-organized structures such as galactic density wave modes. A global and synthetic approach incorporating correlated fluctuations of the constituent particles during a nonequilibrium phase transition is adopted to supplement the continuum treatment. The cutting-edge research combining analytical, N-body simulation, and observational aspects as well as the fundamental physics connections it provides make this work a valuable reference for researchers and graduate students in astronomy, astrophysics, cosmology, many-body physics, complexity theory, and other related fields.

Contents  
Dynamical Drivers of Galaxy Evolution  
N-Body Simulations of Galaxy Evolution  
Astrophysical Implications of the Dynamical Theory  
Putting It All Together  
Concluding Remarks  
Appendix: Relation to Kinetics and Fluid Mechanics

**Solid State**

**Astrochemistry** Valerio Pirronello, Jacek Krelowski, Giulio Manicò, 2012-12-06 The fundamental role that Astrochemistry plays in regulating the processes that in interstellar clouds lead to the formation of stars and how these processes concur into affecting the shape and the dynamics of galaxies and hence into showing the Universe in the way it appears to us is well established Together with those occurring in the gas phase a special relevance is recognized to processes that involve interstellar dust grains the solid component of matter diffused among stars The school on Solid State Astrochemistry held at the Ettore Majorana Centre for Scientific Culture in Erice Sicily from the 5th to the 15th of June 2000 was the fifth course of the International School of Space Chemistry In spite of its very focused aim it was attended by 66 participants from 17 different countries that in the very special environment provided by the Majorana Centre discussed in great details the various aspects of the subject *Handbook of Infrared Astronomy* Ian S. Glass, 1999-08-13 A clear and concise practical

handbook on all aspects of infrared astronomy for graduate students researchers and keen amateurs **The Impact of Large Scale Near-IR Sky Surveys** F. Garzón, N. Epchtein, A. Omont, W.B. Burton, P. Persi, 2012-12-06 After a year's successful operation the European DENIS project is now a scientific reality and its close cousin 2MASS USA is about to come into operation The observational and data reduction processes of both DENIS and 2MASS are fully described in this volume Already the impact of DENIS is making itself felt in the astronomical community in areas of research as diverse as cosmology the evolution of galaxies the interstellar medium the search for brown dwarfs and stellar structure and evolution The first routine results from DENIS and the preliminary results from the 2MASS prototype camera are discussed and compared with other surveys across the wavelength spectrum both space and ground based including the Digitized Sky Survey ISO and ROSAT **Observational Cosmology** M.N. Bremer, N. Jackson, I. Pérez-Fournon, 2012-12-06 Radio surveys play an

important role in observational cosmology However until recently the surveys have been either of wide area but with low sensitivity or of small area with high sensitivity Both limit the kinds of cosmology that can be carried out with radio surveys This situation has been revolutionised in the past few years by the availability of new large area high sensitivity radio surveys at both low and high radio frequencies These significant improvements allow studies based on both the statistics of the surveys themselves and multiwavelength follow up of the galaxies and AGN responsible for the radio emission It is therefore an opportune time to summarise progress in this field with a workshop This book comprises the proceedings of the Observational Cosmology with the New Radio Surveys workshop held on Tenerife January 13-15 1997 Topics covered include lessons learned and important results from earlier surveys descriptions of some of the new surveys clusters of galaxies and large scale structure radio source evolution CMB studies gravitational lensing and multiwavelength studies of distant radio sources

**Origins of Life** Vlado Valkovic, 2021-11-09 The primary purpose of this book is to prepare the ground for coordinated efforts aiming to answer the question where and when life originated The appearance of life involves three successive stages i the formation of chemical elements and their combination to simple molecules which is the concern of

physicists ii the evolution of organized complexity in biomolecules and their reactions which falls within the field of chemistry  
iii the onset of Darwinian evolution after the appearance of the first cell like structure which is studied by biologists This book focuses on the first two steps of this process with chapters exploring topics such as chemical element abundances galaxies galactic magnetic fields and cosmic rays galactic chemical evolution Key Features Contains extensive lists of reference and additional reading Includes new hypotheses concerning the origin of life Combines consideration from nuclear physics astrophysics astro and geochemistry Despite its interdisciplinary nature this book remains accessible to nonexperts and would be a valuable companion for both experts and laypeople      **Lessons from the Local Group** Kenneth

Freeman, Bruce Elmegreen, David Block, Matthew Woolway, 2014-11-13 Our understanding of galaxy formation comes mostly from two sources sensitive observations at high angular resolution of the high redshift Universe where galaxies are observed to be forming and detailed observations of individual stars and clouds in the Local Group where telltale remnants from its formative time remain and similar processes operate at a low level today The current conference focusses on key aspects of the Local Group composed of the Milky Way Andromeda and Triangulum Spiral Galaxies the Large and Small Magellanic Cloud galaxies numerous dwarf and irregular galaxies and intergalactic gas Topics include the halo and thick disk of the Milky Way with its first stars and stellar streams the Milky Way bar bulge and outer edge interstellar dust and turbulence star formation processes and stellar scattering in spiral arms views through the infrared Eyes of the Spitzer Space Telescope globular clusters the Local Gould Belt stellar metallicities and elemental abundances the environment and black hole in the Milky Way nucleus orbits of the Magellanic Clouds and galaxy dwarfs interstellar dust and turbulence the outer disks and halos of the Andromeda and Triangulum galaxies ripples from a collision in Andromeda and arcs of carbon stars in the Triangulum and intergalactic clouds This volume also discusses surveys of planetary nebulae galaxy morphology at low and high redshift cosmic evolution of star and galaxy formation and gas accretion Lyman alpha emitting galaxies ultra low surface brightness imaging and more Readers are given a clear and comprehensive view of this wide range of topics written by specialists in each field This is the proceedings of an International Conference at the Seychelles archipelago in May 2014 on the occasion of the 60th birthday of David Block and the millionth base two birthday of Bruce Elmegreen      The de

Vaucouleurs Atlas of Galaxies Ronald J. Buta, Harold G. Corwin, Stephen C. Odewahn, 2007-03-08 New illustrated atlas on modern galaxy classification for astronomy researchers students and amateurs      **Penetrating Bars through Masks of**

**Cosmic Dust** David L. Block, Ivânio Puerari, K. C. Freeman, R. Groess, Elizabeth K. Block, 2013-04-17 THE EDITORS DAVID L BLOCK AND KENNETH C FREEMAN SOC CO CHAIRS IVANIO PUERARI ROBERT GROESS AND LIZ K BLOCK 1 Harvard College Observatory 1958 The past century has truly brought about an explosive period of growth and discovery for the physical sciences as a whole and for astronomy in particular Galaxy morphology has reached a renaissance The year 1958 The date October 1 The venue Harvard College Observatory The lecturer Walter Baade With amazing foresight Baade

penned these words Young stars supergiants and so on make a terrific splash lots of light The total mass of these can be very small compared to the total mass of the system Dr Layzer then asked the key question the discussion raises the point of what this classification would look like if you were to ignore completely all the Population I and just focus attention on the Population II We stand on the shoulders of giants The great observer E E Barnard in his pioneering efforts to photograph the Milky Way devoted the major part of his life to identifying and numbering dusty holes and dust lanes in our Milky Way No one could have dreamt that the pervasiveness of these cosmic dust masks not only in our Galaxy but also in galaxies at high redshift is so great that their penetration is truly one of the pioneering challenges from both space borne telescopes and from the ground

**The Cosmic Dust Connection** J. Mayo Greenberg, 2012-12-06 Solid particles are followed from their creation through their evolution in the Galaxy to their participation in the formation of solar systems like our own these being now clearly deduced from observations by the Hubble Space Telescope as well as by IR and visual observations of protostellar disks like that of the famous Beta Pictoris object The most recent observational laboratory and theoretical methods are examined in detail In our own solar system studies of meteorites comets and comet dust reveal many features that follow directly from the interstellar dust from which they formed The properties of interstellar dust provide possible keys to its origin in comets and asteroids and its ultimate origin in the early solar system But this is a continuing story what happens to the solid particles in space after they emerge from stellar sources has important scientific consequences since it ultimately bears on our own origins the origins of solar systems and especially of our own earth and life in the universe

Galaxy Morphology and Classification Sidney Van den Bergh, 1998-04-16 A concise and up to date guide to the shape of galaxies and how they can be classified by one of the pioneers of the field

*Quasar Hosts* David L. Clements, Ismael Perez-Fournon, 2013-11-11

*Laboratory Astrophysics and Space Research* P. Ehrenfreund, C. Krafft, H. Kochan, Valerio Pirronello, 2012-12-06 The book presents the most recent developments of laboratory studies in astrophysics and space research The individual chapters review laboratory investigations under simulated space conditions studies for the design of successful space experiments or for supporting the interpretation of astronomical and space mission recorded data Related theoretical models numerical simulations and in situ observations demonstrate the necessity of experimental work on the Earth's surface The expertise of the contributing scientists covers a broad spectrum and is included in general overviews from fundamental science to recent space technology The book intends to serve as a reference for researchers and graduate students on the most recent activities and results in laboratory astrophysics and to give reviews of their applications in astronomy planetology cosmochemistry space research and Solar System exploration

## The Enigmatic Realm of **New Extragalactic Perspectives In The New South Africa**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing in short supply of extraordinary. Within the captivating pages of **New Extragalactic Perspectives In The New South Africa** a literary masterpiece penned by way of a renowned author, readers set about a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting affect the hearts and minds of those that partake in its reading experience.

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