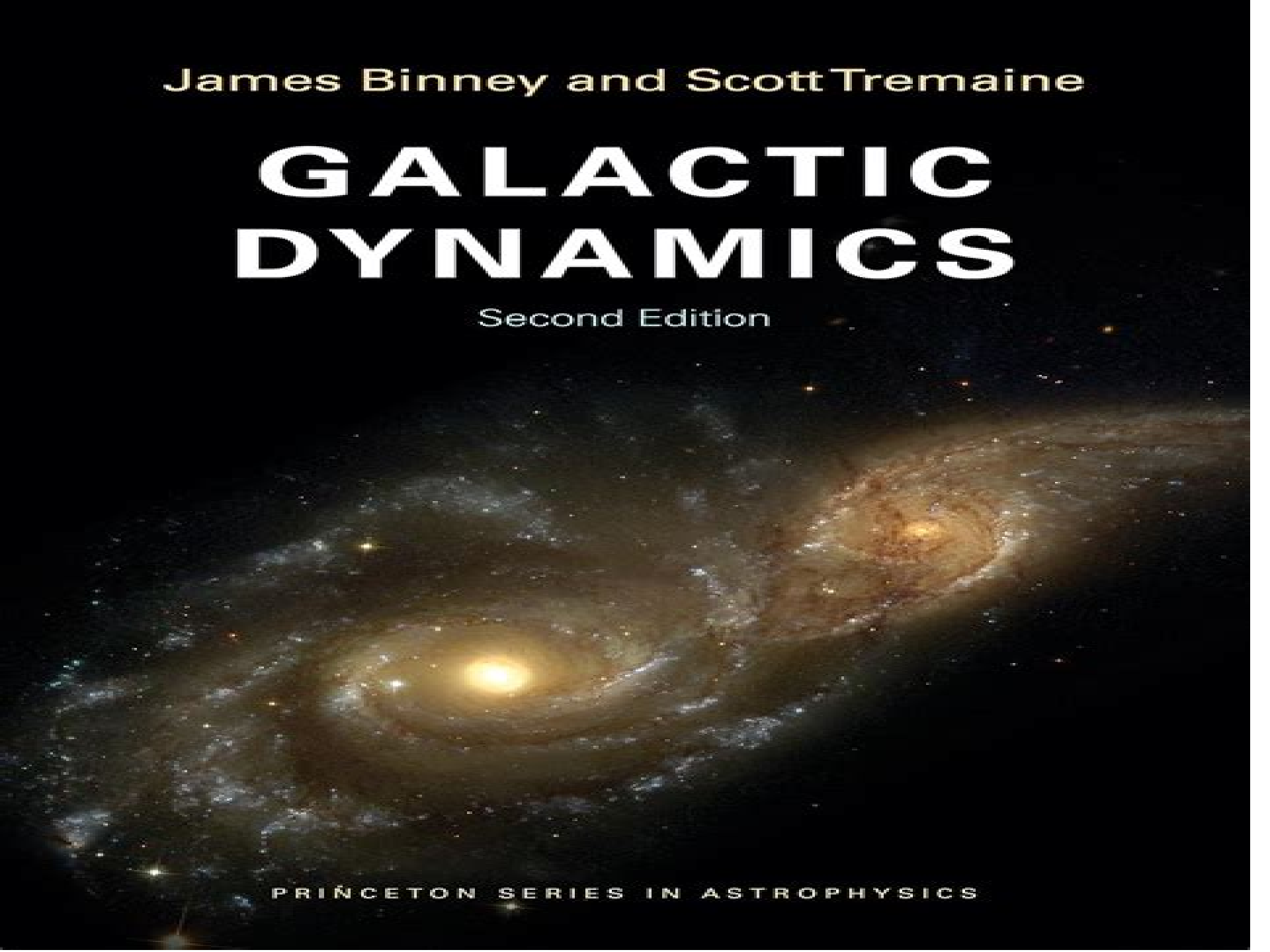


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Jo Bovy



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motions galaxy formation and general relativity Each chapter is written by a world expert renowned for original contributions to the field The authors are James Binney Roger Blandford David Burstein Tim de Zeeuw George Efstathiou Steve Gull Nick Kaiser J Katz Donald Lynden Bell Ruth Lynden Bell Douglas Lin Jeremiah Ostriker T Padmanabhan J Papaloizou Jim Peebles Jim Pringle Martin Rees Maarten Schmidt Scott Tremaine and Simon White This volume provides a broad pedagogical introduction to gravitational dynamics for graduate students and an up to date review for researchers in cosmology astrophysics mathematical physics and applied mathematics

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[The Search for Ultralight Bosonic Dark Matter](#) Derek F. Jackson Kimball, Karl van Bibber, 2022-09-28 A host of astrophysical measurements suggest that most of the matter in the Universe is an invisible nonluminous substance that physicists call dark matter Understanding the nature of dark matter is one of the greatest challenges of modern physics and is of paramount importance to our theories of cosmology and particle physics This text explores one of the leading hypotheses to explain dark matter that it consists of ultralight bosons forming an oscillating field that feebly interacts with light and matter Many new experiments have emerged over the last decade to test this hypothesis involving state of the art microwave cavities precision nuclear magnetic resonance NMR measurements dark matter radios and synchronized global networks of atomic clocks magnetometers and interferometers The editors have gathered leading experts from around the world to present the theories motivating these searches evidence about dark matter from astrophysics and the diverse experimental techniques employed in searches for ultralight bosonic dark matter The text provides a comprehensive and accessible introduction to this blossoming field of

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Socioeconomic Sustainability Through Moral and Social Capital Omar Javaid, 2025-09-26 This book examines how entrepreneurial communities in Pakistan and beyond counteract social disintegration fuelled by neoliberal economic practices It highlights the role of moral and social capital in mitigating social pathologies such as alienation exclusion and inequality caused by the disintegration of traditional family and community networks Through an in depth analysis of family community market and firm dynamics in ethnic entrepreneurial communities the book highlights how these groups avoid disintegration through the cultivation and preservation of moral and social capital Comparative insights from ethnic minority and community based entrepreneurial contexts further enrich the analysis and contribute to current debates in economic sociology development studies and the anthropology of entrepreneurship It also offers a valuable resource for policymakers and development practitioners interested in community based strategies for achieving socioeconomic sustainability This volume will appeal to scholars and advanced students in sociology political economy organizational studies and community development

An Introduction To Particle Dark Matter Stefano Profumo, 2017-02-23 What is the dark matter that fills the Universe and binds together galaxies How was it produced What are its interactions and particle properties The paradigm of dark matter is one of the key developments at the interface of cosmology and elementary particle physics It is also one of the foundations of the standard cosmological model This book presents the state of the art in building and testing particle models for dark matter Each chapter gives an analysis of questions research directions and methods within the field More than 200 problems are included to challenge and stimulate the reader s knowledge and provide guidance in the practical implementation of the numerous tools of the trade presented Appendices summarize the basics of cosmology and particle physics needed for any quantitative understanding of particle models for dark matter This interdisciplinary textbook is essential reading for anyone interested in the microscopic nature of dark matter as it manifests itself in particle physics experiments cosmological observations and high energy astrophysical phenomena from graduate students and advanced undergraduates to cosmologists and astrophysicists interested in particle models for dark matter and particle physicists interested in early universe cosmology and high energy astrophysics

Proceedings of the Conference in Honour of Murray Gell-Mann's 80th Birthday H. Fritzsch, 2010 The Conference on Quantum Mechanics Elementary Particles Quantum Cosmology and Complexity was held in honour of Professor Murray Gell Mann s 80th birthday in Singapore on 24-26 February 2010 The conference paid tribute to Professor Gell Mann s great achievements in the elementary particle physics This notable birthday volume contains the presentations made at the

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