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Theory Of Transonic Astrophysical Flows

Sandip Kumar Chakrabarti



Theory Of Transonic Astrophysical Flows:

Theory Of Transonic Astrophysical Flows Sandip Kumar Chakrabarti, 1990-06-27 This book presents methods of studying transonic flows applicable to various astrophysical circumstances This is the first book of its kind and efforts have been made to be as thorough as possible It gives complete mathematical solutions for the study in this area including various shock transitions For any theoretical astrophysicists this book is expected to be very useful as the formalism discussed can be applied to all the branches Both axisymmetric and non axisymmetric flows are studied *Theory of Transonic Astrophysical Flows* Sandip K. Chakrabarti, 1990 This book presents methods of studying transonic flows applicable to various astrophysical circumstances This is the first book of its kind and efforts have been made to be as thorough as possible It gives complete mathematical solutions for the study in this area including various shock transitions For any theoretical astrophysicists this book is expected to be very useful as the formalism discussed can be applied to all the branches Both axisymmetric and non axisymmetric flows are studied **Observational Evidence for Black Holes in the Universe** Sandip K.

Chakrabarti, 2012-12-06 A conference on Observational Evidence for Black Holes in the Universe was held in Calcutta during January 10 17 1998 This was the first time that experts had gathered to debate and discuss topics such as Should black holes exist If so how to detect them Have we found them This book is the essence of this gathering Black holes are enigmatic objects since it is impossible to locate them through direct observations State of the art theoretical works and numerical simulations have given us enough clues of what to look for Observations from both ground and space based missions have been able to find these tell tale signatures This book is a compendium of our present knowledge about these theories and observations Combined they give a thorough idea of whether black holes galactic as well as extragalactic have been detected or not Forty one experts of the subject have contributed to this volume to make it the most comprehensive to date

Eleventh Marcel Grossmann Meeting, The: On Recent Developments In Theoretical And Experimental General Relativity, Gravitation And Relativistic Field Theories (In 3 Volumes) - Proceedings Of The Mg11 Meeting On General Relativity Hagen Kleinert, Robert T Jantzen, Remo Ruffini, 2008-09-04 The Marcel Grossmann Meetings are three yearly forums that meet to discuss recent advances in gravitation general relativity and relativistic field theories emphasizing their mathematical foundations physical predictions and experimental tests These meetings aim to facilitate the exchange of ideas among scientists to deepen our understanding of space time structures and to review the status of ongoing experiments and observations testing Einstein's theory of gravitation either from ground or space based experiments Since the first meeting in 1975 in Trieste Italy which was established by Remo Ruffini and Abdus Salam the range of topics presented at these meetings has gradually widened to accommodate issues of major scientific interest and attendance has grown to attract more than 900 participants from over 80 countries This proceedings volume of the eleventh meeting in the series held in Berlin in 2006 highlights and records the developments and applications of Einstein's theory in diverse areas ranging from

fundamental field theories to particle physics astrophysics and cosmology made possible by unprecedented technological developments in experimental and observational techniques from space ground and underground observatories It provides a broad sampling of the current work in the field especially relativistic astrophysics including many reviews by leading figures in the research community Exploring the Universe: From Near Space to Extra-Galactic Banibrata Mukhopadhyay, Sudipta Sasmal, 2018-10-01 This Festschrift dedicated to the 60th birth anniversary of Prof Sandip K Chakrabarti a well known Indian astrophysicist presents a collection of contributions by about fifty scientists who work on diverse topics in contemporary astrophysics and space science including new and low cost balloon borne experiments planetary science astrochemistry and the origin of life ionospheric research and earthquake predictions relativistic astrophysics around black holes and finally the observational signatures and radiative properties of compact objects All the authors are well known scholars in their respective subject and are all PhD students of Prof Sandip K Chakrabarti The book demonstrates a two dimensional evolution of research areas triggered by Sandip Chakrabarti over the past few decades The first dimension represents the evolution and diversification of Chakrabarti s own research in which new students were trained A second dimension arises from the evolution of the research topics pursued by Chakrabarti s fifty odd doctoral students many of whom have become renowned scientists in their own right after starting with a certain subject under Chakrabarti and then migrating to completely new subjects with dexterity The editors have compiled and edited the articles appropriately to some extent to suit the spirit of this Festschrift on the one hand and to keep balance in diverse topics on the other Thus this volume also provides an overview for whosoever wishes to enter the important subjects of compact objects astrochemistry ionospheric science or space exploration in near space New graduates PhD scholars teachers and researchers will benefit from this volume Moreover it is a record of tremendous success of a school in a range of vast topics **Mass-Losing Pulsating Stars and their Circumstellar**

Matter Y. Nakada, M. Honma, M. Seki, 2012-12-06 Editing the proceedings of a scientific meeting is not an easy task Sometimes people who give an excellent talk do not send the manuscript by the deadline However this time thanks to the punctuality of all the participants we have this excellent volume for the workshop on mass losing pulsating stars and their circumstellar matter prepared in time Almost all of the oral presentations including the summary are collected in this volume We regret that we cannot put in this volume a few posters that we failed to receive before the editorial work The workshop was planned as a small meeting with less than fifty attendants because the city of Sendai was far from the most of the active institutions However the number of submitted papers exceeded the SOC s expectation many interesting contributions had to be scheduled in the poster session Still the oral sessions were so tight that many participants might have felt frustrated for the shortage of discussions The organizers of the workshop have to apologize to the attendants for the inconvenience caused from such a happy underestimate about the size of the workshop Microquasars Alberto J. Castro-Tirado, Jochen Greiner, Josep M. Paredes, 2012-12-06 The Third Microquasar Workshop or the Fifth Workshop on Galactic Relativ istic Jet

Sources was held in Granada Andalusia Spain on 11-13 September 2000. The aim of this workshop in Granada following the previous Microquasar Workshops in Greenbelt 1997 and Paris 1998 and the Workshops on galactic sources with relativistic jets in Jodrell Bank 1996 and Milton Keynes 1998 was to focus on the theoretical and observational aspects of microquasars. The study of microquasars, the sources in our Galaxy displaying powerful relativistic jets, is a rapidly advancing field in astrophysics. The new instrumentation on ground (MERLIN, SCUBA, VLA, VLT) and aboard satellites (ASCA, BSAX, ISO, IXAE and RXTE) has provided important results and much more is expected to come from Chandra and XMM-Newton. In the further future, powerful instrumentation will come online in the sub-mm (ALMA) and gamma-rays (INTEGRAL) extending our coverage to important regions for the study of microquasars. Energy transport via relativistic jets is one of the most important physical mechanisms taking place in compact objects. Large efforts have been devoted to properly understand the disk-jet connection and even the effects of rotation or magnetic fields. Several new important advances have been made recently both from the point of view of the theoretical treatment of jets and the different new observational tests.

The Ninth Marcel Grossmann Meeting (MGIXMM) Robert T. Jantzen, Remo Ruffini, Vahe G. Gurzadyan, 2002-12-01. In 1975 the Marcel Grossmann Meetings were established by Remo Ruffini and Abdus Salam to provide a forum for discussion of recent advances in gravitation, general relativity and relativistic field theories. In these meetings, which are held once every three years, every aspect of research is emphasized: mathematical foundations, physical predictions and numerical and experimental investigations. The major objective of these meetings is to facilitate exchange among scientists so as to deepen our understanding of the structure of space-time and to review the status of both the ground-based and the space-based experiments aimed at testing the theory of gravitation. The Marcel Grossmann Meetings have grown under the guidance of an International Organizing Committee and a large International Coordinating Committee. The first two meetings, MG1 and MG2, were held in Trieste 1975-1979. A most memorable MG3 1982 was held in Shanghai and represented the first truly international scientific meeting in China after the so-called Cultural Revolution. Three years later MG4 was held in Rome 1985. It was at MG4 that astroparticle physics was born. MGIXMM was organized by the International Organizing Committee composed of D. Blair, Y. Choquet-Bruhat, D. Christodoulou, T. Damour, J. Ehlers, F. Everitt, Fang Li, Zhi-S. Hawking, Y. Ne'eman, R. Ruffini, chair, H. Sato, R. Sunyaev and S. Weinberg. Essential to the organization was an International Coordinating Committee of 135 members from scientific institutions of 54 countries. MGIXMM was attended by 997 scientists of 69 nationalities. It took place on 2-8 July 2000 at the University of Rome, Italy. The scientific programs included 60 plenary and review talks as well as talks in 88 parallel sessions. The three volumes of the proceedings of MGIXMM present a rather authoritative view of relativistic astrophysics, which is becoming one of the priorities in scientific endeavour. The papers appearing in these volumes cover all aspects of gravitation from mathematical issues to recent observations and experiments. Their intention is to give a complete picture of our current understanding of gravitational theory at the turn of the millennium. The Marcel Grossmann Individual

Awards for this meeting were presented to Cecille and Bryce DeWitt Riccardo Giacconi and Roger Penrose while the Institutional Award went to the Solvay Institute accepted on behalf of the Institute by Jacques Solvay and Ilya Prigogine The acceptance speeches are also included in the proceedings

The Ninth Marcel Grossmann Meeting Robert T. Jantzen, Remo Ruffini, V. G. Gurzadyan, 2002 Numerical Simulation of Viscous Shocked Accretion Flows Around Black Holes Kinsuk Giri, 2014-08-30 The work developed in this thesis addresses very important and relevant issues of accretion processes around black holes Beginning by studying the time variation of the evolution of inviscid accretion discs around black holes and their properties the author investigates the change of the pattern of the flows when the strength of the shear viscosity is varied and cooling is introduced He succeeds to verify theoretical predictions of the so called Two Component Advective Flow TCAF solution of the accretion problem onto black holes through numerical simulations under different input parameters TCAF solutions are found to be stable And thus explanations of spectral and timing properties including Quasi Period Oscillations QPOs of galactic and extra galactic black holes based on shocked TCAF models appear to have a firm foundation

Unsolved Problems of the Milky Way Leo Blitz, Peter Teuben, 2013-11-11 Although the Milky Way is the most studied and best understood galactic system there are many fundamental questions about our Galaxy that remain unanswered This book concentrates on those questions which have the widest applicability in all of astrophysics and for which answers are most likely to be forthcoming in the next few years Is the Milky Way a barred spiral and if so what are its properties Is the disk of the Milky Way axisymmetric and what does the answer tell us about its dynamical history Is there a black hole at the center of the Galaxy How far does the Galaxy extend How much dark matter is there in the Milky Way system And more

Astrophysical Disks Aleksey M. Fridman, Mikhail Ya. Marov, Ilya G. Kovalenko, 2006-07-25 This book deals with collective and stochastic processes in astrophysical disks involving theory observations and the results of modelling It examines the spiral vortex structure in galactic and accretion disks and stochastic and ordered structures in developed turbulence The book advances the study in this important branch of astrophysics and will benefit professional researchers lecturers and graduate students

Relativistic Astrophysics And Cosmology: Proceedings Of The Eighteenth Texas Symposium Angela V Olinto, David N Schramm, Joshua A Frieman, 1998-06-05 Since 1963 the Texas Symposia have been a biennial peripatetic forum for forefront developments on a wide range of topics in relativistic astrophysics from pulsars to string theory from the birth of the universe to the death of stars The 26 plenary lectures 230 parallel session talks and 265 poster presentations attest to the scientific vitality of this interdisciplinary field

Black Holes: Theory and Observation Friedrich W. Hehl, Claus Kiefer, Ralph J.K. Metzler, 1998-11-26 This book addresses graduate students in the first place and is meant as a modern compendium to the existing texts on black hole astrophysics The authors present in pedagogically written articles our present knowledge on black holes covering mathematical models including numerical aspects and physics and astronomical observations as well In addition in their write up of a panel

discussion the participants of the school address the existence of black holes consenting that it has by now been verified with certainty Seventeenth Texas Symposium on Relativistic Astrophysics and Cosmology Hans Böhringer, G. E.

Morfill, Joachim Truemper, 1995 This text which results from aq major astrophysics convocations treats such subjects as binary pulsars clusters of galaxies large scale structures recent highlights of HST sources of gravitational radiation X and gamma background Machos and dark matter the solar neutrino problem quasar absorption lines inflationary cosmology particle physics and cosmology recent highlights of GRO galactic centers COBE results high redshift quasars quantum gravity recent highlights from ASCA and ROSAT supernovae and cosmic rays at high energies Relativistic Hydrodynamics

Luciano Rezzolla, Olindo Zanotti, 2013-09-26 Relativistic hydrodynamics is a very successful theoretical framework to describe the dynamics of matter from scales as small as those of colliding elementary particles up to the largest scales in the universe This book provides an up to date lively and approachable introduction to the mathematical formalism numerical techniques and applications of relativistic hydrodynamics The topic is typically covered either by very formal or by very phenomenological books but is instead presented here in a form that will be appreciated both by students and researchers in the field The topics covered in the book are the results of work carried out over the last 40 years which can be found in rather technical research articles with dissimilar notations and styles The book is not just a collection of scattered information but a well organized description of relativistic hydrodynamics from the basic principles of statistical kinetic theory down to the technical aspects of numerical methods devised for the solution of the equations and over to the applications in modern physics and astrophysics Numerous figures diagrams and a variety of exercises aid the material in the book The most obvious applications of this work range from astrophysics black holes neutron stars gamma ray bursts and active galaxies to cosmology early universe hydrodynamics and phase transitions and particle physics heavy ion collisions It is often said that fluids are either seen as solutions of partial differential equations or as wet Fluids in this book are definitely wet but the mathematical beauty of differential equations is not washed out *Theory of Accretion Disks 2* Wolfgang J.

Duschl, Juhan Frank, F. Meyer, Emmi Meyer-Hofmeister, Werner M. Tscharnuter, 1994 Accretion disks in astrophysics represent the characteristic flow by which compact bodies accrete mass from their environment Their intrinsically high luminosity and recent progress in observational accessibility at all wavelength bands have led to rapidly growing awareness of their importance and made them the object of intense research on widely different scales ranging from binary stars to young stellar objects and active galactic nuclei This book contains the proceedings of the NATO Advanced Workshop on Theory of Accretion Disks 2 for which some of the most active researchers in the different fields came together at the Max Planck Institut for Astrophysics in Garching in March 1993 Its reviews and contributions give an up to date account of the present status of our understanding and provide a stimulating challenge in discussions of open questions in a rapidly developing field Multiwavelength Approach to Unidentified Gamma-Ray Sources K.S. Cheng, Gustavo E.

Romero,2005-05-02 Nearly one half of the point like gamma ray sources detected by EGRET instrument of the late Compton satellite are still defeating our attempts at identifying them To establish the origin and nature of these enigmatic sources has become a major problem of current high energy astrophysics The second workshop on Multiwavelength Approach to Unidentified Gamma ray Sources intends to shed new and fresh light on the problem of the nature of these mysterious sources and the objects behind them The proceedings contain 46 contributed papers in this subject which cover theoretical models on gamma ray sources as well as the best multiwavelength strategies for the identification of the promising candidates The topics of this conference also include energetic phenomena occurring both in galactic and extragalactic scenarios phenomena that might lead to the appearance of what we have called high energy unidentified sources The book will be of interest for all active researchers in the high energy astrophysics and related research areas as well as for scientists and graduate students interested in understanding the recent progress in this field *Structure and Emission Properties of Accretion Disks* C. BERTOUT (Ed),1991 *The Neutron Star-Black Hole Connection* Chryssa Kouveliotou,J.E Ventura,E.P. van den Heuvel,Edward Peter Jacobus van den Heuvel,2001-12-31 The foremost observers and theorists discuss the latest developments in the astrophysics of neutron stars black holes and their interaction in the universe Often found in compact interacting binaries these objects exhibit broadly similar behaviour The determination of observational signatures that distinguish between these two types of objects is systematically explored Supernovae and evolutionary scenarios leading to neutron stars and black holes single or in binaries are also discussed in detail There is also a discussion of the decades old mystery of cosmic gamma ray bursts currently thought to represent enormous stellar explosions at cosmological distances These could be the result of mergers of a neutron star and its compact binary companion a literal neutron star black hole connection A lucid series of lectures for the advanced graduate student A unifying text that will appeal to the research astrophysicist and space physicist

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