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# Radiation Hydrodynamics in Stars and Compact Objects

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# Radiation Hydrodynamics In Stars And Compact Objects

Stanford E. Woosley

**Radiation Hydrodynamics In Stars And Compact Objects:**

*Radiation Hydrodynamics in Stars and Compact Objects* Dimitri Mihalas,1986 *Radiation Hydrodynamics in Stars and Compact Objects* International Astronomical Union. Colloquium,1986 Physical Processes in Comets, Stars and Active Galaxies Wolfgang Hillebrandt,Emmi Meyer-Hofmeister,Hans-Christoph Thomas,2012-12-06 In May 1986 a two day workshop on Physical Processes in Comets Stars and Active Galaxies was held at the Ringberg Castle near Lake Tegernsee and this rather unusml l collection of topics needs a few words of explanation When we first thought of organizing a workshop on such a large variety of astrophysical objects our main motivation was to honor Rudolf Kippenhahn and Hermann Ulrich Schmidt on the occasion of their 60th birthdays and we planned to cover at least a fraction of their fields of active research We then realized immediately that despite the fact that the objects are so different the physical processes involved are very much the same and that it is this aspect of astrophysics which governed the scientific lives of both of our distinguished colleagues and friends and allowed them to make major contributions to all those fields Apparently this viewpoint was shared by many colleagues and it was therefore not surprising that in response to our invitation everybody who had been invited agreed to come and to present a talk The workshop then turned out to be a real success In contrast to highly specialized conferences fundamental problems as well as very recent devel opments were discussed and the participants appreciated the opportunity to exchange ideas Supernovae Stanford E. Woosley,2012-12-06 Supernova explosions are not only important to the ecology of the universe seeding it among other things with the heavy elements necessary for the existence of life but they are also a natural laboratory in which a host of unique physical phenomena occur While still far from a complete understanding scientists have made great advances during the last twenty five years in understanding the nature and conse quences of supernovae This book presents the state of supernova studies at the beginning of the 1990 s as reported at a two week meeting on the Santa Cruz campus of the University of California in July 1989 in volving 177 astronomers and astrophysicists from 17 nations The 110 papers contained in this volume report all aspects of the field observations at all wavelengths from radio through gamma rays bolometric light curves and spectra neutrino observations the theory of stellar explosions multidimensional models for mixing nucleosynthesis calculations synthetic spectral modeling presupernova evolution supernova remnants supernova rates supernovae as standard candles the interaction of supernovae with their surroundings and constitute the most comprehensive and up to date treatment of SN 1987A currently available Astronomers and astronomy graduate students will find this an in valuable summary of the current state of supernova research The informed layperson or undergraduate astronomy student will also find it a useful introduction and guide to the literature in the subject *Astronomy and Astrophysics Abstracts* S. Böhme,U. Esser,H. Hefele,I. Heinrich,W. Hofmann,D. Krahn,V. R. Matas,L. D. Schmadel,G. Zech,2013-12-14 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 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 1

*Supernovae* Albert G. Petschek,2012-12-06 For millennia mankind has watched as the heavens move in their stately progression from night to night and from year to year presaging with their changes the changing seasons The sun the moon and the planets move in what appears to be an unchanging firmament except occasionally when a new star appears Among the new stars there are comets novae and finally supernovae the subject of this book Superstitious mankind regarded these events as significant portents and recorded them carefully so that we have records of supernovae that may reach back as far as 1300 B C Clark and Stephenson 1977 Murdin and Murdin 1985 The Cygnus Loop believed to be a 15 000 year old supernova remnant at a distance of only 800 pc Chevalier and Seward 1988 must have awed our ancestors Tycho s supernova of 1572 at a distance of 2500 pc had a magnitude of 4 0 comparable to Venus at its brightest and Kepler s supernova of 1604 had a magnitude of 3 or so Thus the Cygnus Loop supernova might have had a magnitude of 6 or so and should have been readily visible in daytime A supernova in Vela about 8000 B C was comparably close as was SN 1006 whose magnitude may have been 9 While most of the supernova records come from the Old World the supernova of 1054 is recorded in at least one petroglyph in the American West *Supernovae - Proceedings Of The 6th Jerusalem Winter School For Theoretical Physics* Tsvi Piran,Steven Weinberg,J Craig Wheeler,1990-07-23 Supernovae are highly energetic phenomena for which it is necessary to use simultaneously particle physics nuclear physics and hydrodynamics to study the creation of the strong explosions involved Supernovae synthesize heavy elements and in some cases lead to the formation of neutron stars or black holes Recent progress has revealed new classes of explosions and new insights into the evolution and explosion mechanisms including that of the dramatic event SN 1987A in the Large Magellanic Cloud Major questions still remain concerning the evolution of massive stars in binary systems the nature of gravitational collapse and the physical processes involved in the thermonuclear explosion of degenerate stars This School explores our current understanding of supernovae and areas of active study Elements and the Cosmos Bernard Ephraim Julius Pagel,1992-10-15 While there have been many books on cosmology and galactic and stellar evolution in which abundance analysis of astrophysical objects has played

some part this book is the first one for several years where specialists in the various relevant fields discuss the basis and implications of the subject as a whole The major aim of the book is to bring together the results from high redshift studies and galactic studies in a coherent way and to cover relevant aspects of nuclear and atomic physics *General Relativity And Gravitational Physics - Proceedings Of The 8th Italian Conference* Massimo Cerdonio,Mauro Francaviglia,Roberto Cianci,Marco Toller,1989-04-01 This conference reviewed the current status of General Relativity and Classical Theories of Gravitation Relativistic Astrophysics and Cosmology Experimental and Observational Gravitation Supergravity and Quantum Gravity *High-Energy Astrophysics Research Enabled By The Probe-Class Mission Concept HEX-P* Gabriele Ponti,Murray Brightman,Esra Bulbul , Renee Ludlam,Daniel Stern,Javier A. García,2025-06-02 The Astro 2020 Decadal report Pathways to Discovery in Astronomy and Astrophysics for the 2020s identified the need for a new class of mission for the next decade that fills the gap between a Mid sized Explorer MIDEX and Flagship Large mission The report specifically recommends that a cadence of one probe mission per decade with a cost cap of 1 5 billion balances scientific scope with timeliness NASA has followed this recommendation and opened a call for Astrophysics Probe Explorer APEX proposals restricted to either a far infrared or an X ray mission due in Fall 2023 with a planned launch date in no later than 2032 In response to this call the High Energy X ray Probe HEX P concept has been developed as a partnership between NASA s Jet Propulsion Laboratory JPL the California Institute of Technology Caltech and the NASA Goddard Space Flight Center GSFC with international partnership from the Italian Space Agency ASI Italy the German Space Agency DLR and the Max Planck Institute for Extraterrestrial Physics MPE Germany HEX P is a mission concept that offers sensitive broad band coverage from soft to hard X rays 0 2 80 keV with an exceptional combination of spectral timing and angular capabilities It features two high energy telescopes HETs that focus hard X rays and one low energy telescope LET that focuses lower energy X rays building upon the heritage of previous successful missions such as XMM Newton and NuSTAR With this leap in observational capability HEX P will be capable of addressing fundamental questions about the extreme environments around black holes and neutron stars map the growth of supermassive black holes and quantify the effect they have on their environments HEX P will resolve the hard X ray emission from dense regions of our Galaxy to understand the high energy source populations and investigate dark matter candidate particles through their decay channel signatures In this Frontiers Research Topic we present a collection of papers which delve into some of the most exciting scientific questions that can be addressed with a mission like HEX P The papers have been prepared by members of the HEX P collaboration which is organized into four main scientific pillars Black Hole Growth Accretion Power Stellar Evolution Time Domain and Multi Messenger Astronomy The individual papers cover a range of topics including The cosmic X ray background Seyfert galaxies Compton thick active galaxies and blazars Black hole binaries neutron stars magnetars ultraluminous X ray sources and tidal disruption events The physics of the X ray corona X ray populations in nearby galaxies Supernova remnants pulsar wind nebulae and nuclear

astrophysics Galactic PeVatrons star clusters superbubbles microquasar jets and gamma ray binaries The Galactic Center Supermassive black spin measurements and dual active galaxies Pulsar Timing electromagnetic counterparts of gravitational wave sources and transient phenomena The main goal of this Research Topic is to present detailed modeling and simulations for a range of HEX P science cases in order to demonstrate the capabilities of HEX P in serving the astrophysics community in the next decade The members of the HEX P mission are welcome to present Original Research papers as well as any other kind of article types that fit their manuscript Please have a look at here to choose the appropriate article type to submit to this collection This Research Topic is organized by the researchers of the HEX P mission Authors and Guest Editors belong to the same consortium Furthermore Dr Daniel Stern and Dr Javier Garcia are the Principal Investigator and the Project Scientist of the mission respectively All manuscripts will be peer reviewed by researchers external to the collaboration

Dynamical Spacetimes and Numerical Relativity Joan M. Centrella,1986-09-18 Extragalactic Radio Sources Jacques Roland,Hélène Sol,Guy Pelletier,1992-06-26 The physics of active galactic nuclei the origin of extragalactic jets and the formation of extended extragalactic radio sources are among the most interesting challenges of modern astrophysics This book contains the proceedings of the 7th meeting of the Institut d Astrophysique de Paris which drew together both theorists and observers in this exciting field Recent observational data at X ray optical and radio wavelengths is discussed and new theoretical developments concerning beam and jet formation models are considered Special treatment is given to plasma physics problems related to particle acceleration magnetic reconnection beam plasma interaction and coherent emission The volume will be of use to all students and researchers who are working in this field *Theory of Accretion Disks* F. Meyer,Wolfgang J. Duschl,Juhan Frank,Emmi Meyer-Hofmeister,2012-12-06 With the advent of space observatories and modern developments in ground based astronomy and concurrent progress in the theoretical understanding of these observations it has become clear that accretion of material on to compact objects is an ubiquitous mechanism powering very diverse astrophysical sources ranging in size and luminosity by many orders of magnitude A problem common to these systems is that the material accreted must in general get rid of its angular momentum and this leads to the formation of an Accretion Disk which allows angular momentum re distribution and converts potential energy into radiation with an efficiency which can be higher than the nuclear burning yield These systems range in size from quasars and active galactic nuclei to accretion disks around forming stars and the early solar system and to compact binaries such as cataclysmic variables and low mass X ray binaries Other objects that should be mentioned in this context are 88433 the black hole binary candidates and possibly gamma ray burst sources Observations of these systems have provided important constraints for theoretical accretion disk models on widely differing scales lumi nosities mass transfer rates and physical environments

*Accretion and Winds* Gerhard Klare,2012-12-06 In order to bring the scientific events of the meetings of the Astronomische Gesellschaft AG to the attention of the worldwide astronomical community an annual publication Reviews in

Modern Astronomy was established It is devoted exclusively to the invited reviews the Karl Schwarz schild lectures and the high light contributions from leading scientists reporting on recent progress and scientific achievements at their respective institutes This third volume continues the yearbook series of publications of the society It comprises the complete set of contributions presented during the spring meeting of the AG at Berlin in March 1990 which was dedicated to the topic Accretion and Winds In addition four latecomers two review and two highlight papers delivered at the fall meeting at Graz Austria in September 1989 close this volume Heidelberg September 1990 G Klare Contents Some New Elements in Accretion Disk Theory By F Meyer With 5 Figures 1 Mass Transfer and Evolution in Close Binaries By A R King With 4 Figures 14 Radiation Hydrodynamics of the Boundary Layer of Accretion Disks in Cataclysmic Variables By W Kley With 6 Figures 21 Curious Observations of Cataclysmic Variables By F V Hessman With 10 Figures 32 Accretion in AM Herculis Stars 44 By A D Schwope With 12 Figures X ray Diagnostics of Accretion Disks By G Hasinger With 12 Figures 60 Accretion Phenomena at Neutron Stars By A Rebetzky H Herold U Kraus H P Nollert and H Ruder With 13 Figures **Pulsation, Rotation and Mass Loss in Early-Type Stars** Luis A. Balona,Huib F. Henrichs,Jean Michel Le Contel,2012-12-06 In this Symposium researchers specializing in pulsation rotation magnetic fields and stellar winds are brought together for the first time in order to broaden our understanding of O and B stars Thanks to advances in digital spectroscopy new types of pulsating B stars have been discovered The pulsations can be understood in terms of the recent revision of metal opacities but the effects of rapid rotation and magnetic fields need further study Observations in the UV and X ray regions demonstrate that many B and Be stars show other activity besides pulsation which is not yet understood The reason for the enhanced mass loss in Be stars is a question which dominates the Symposium and which remains unanswered although it is surely to be found in activity at or near the photosphere coupled with rotation It is shown that the geometry of the circumstellar envelopes around Be stars is indeed a flattened disk as they can now be optically resolved The variability of radiatively driven winds from O and B stars are likely related to the rotation of the star This underlines the central theme of the book that the various phenomena seen in these stars cannot be studied in isolation *Gamma-ray Bursts* Cheng Ho,Richard I. Epstein,Edward E. Fenimore,1992-03-12 Summarizes the current understanding of Astronomical gamma ray bursts short lived flashes of high energy radiation which have eluded even a basic explanation for over twenty years and describes directions for future research **Strongly Coupled Plasma Physics** S. Ichimaru,2012-12-02 Charged particles in dense matter exhibit strong correlations due to the exchange and Coulomb interactions and thus make a strongly coupled plasma Examples in laboratory and astrophysical settings include solid and liquid metals semiconductors charged particles in lower dimensions such as those trapped in interfacial states of condensed matter or beams dense multi ionic systems such a superionic conductors and inertial confinement fusion plasmas The aim of the conference was to elucidate the various physical processes involved in these dense materials The subject areas covered include plasma physics atomic and molecular physics condensed matter

physics and astrophysics *Strongly Coupled Plasma Physics* Setsuo Ichimaru,2013-09-17 Strongly Coupled Plasma Physics covers the proceedings of the 24th Yamada Conference on Strongly Coupled Plasma Physics held from August 29 to September 2 1989 at Hotel Mount Fuji near Lake Yamanaka on the outskirts of Tokyo The book focuses on the reactions technologies interactions and transformations of charged particles The selection first offers information on phase transitions in dense astrophysical plasmas and plasma thermodynamics and the evolution of brown dwarfs and planets as well as solidification of dense astrophysical plasmas evolution of brown dwarfs and structure of Jupiter The text then examines the discovery of low mass objects in Taurus and topics in X ray astronomy from observations with GINGA The publication ponders on proton abundance in hot neutron star matter thermonuclear reaction rates of dense carbon oxygen mixtures in white dwarfs and quantum simulation of superconductivity The text also examines dynamic simulation of mixed quantum classical systems and Monte Carlo simulations for the surface properties of the strongly coupled one component plasma The selection is a dependable reference for readers interested in strongly coupled plasma physics *Solar Flare Loops: Observations and Interpretations* Guangli Huang,Victor F. Melnikov,Haisheng Ji,Zongjun Ning,2018-01-31 This book provides results of analysis of typical solar events statistical analysis the diagnostics of energetic electrons and magnetic field as well as the global behavior of solar flaring loops such as their contraction and expansion It pays particular attention to analyzing solar flare loops with microwave hard X ray optical and EUV emissions as well as the theories of their radiation and electron acceleration transport The results concerning influence of the pitch angle anisotropy of non thermal electrons on their microwave and hard X ray emissions new spectral behaviors in X ray and microwave bands and results related to the contraction of flaring loops are widely discussed in the literature of solar physics The book is useful for graduate students and researchers in solar and space physics **Accretion Processes in Astrophysics** J. Thanh Van Tran,Jean Audouze,1986

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