

Radiation Processes in High Energy Astrophysics

Lecture 3: basic processes and concepts

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Radiation Processes In Astrophysics

Kenneth Lang



Radiation Processes In Astrophysics:

Radiative Processes in Astrophysics George B. Rybicki, Alan P. Lightman, 2008-09-26 Radiative Processes in Astrophysics This clear straightforward and fundamental introduction is designed to present from a physicist's point of view radiation processes and their applications to astrophysical phenomena and space science It covers such topics as radiative transfer theory relativistic covariance and kinematics bremsstrahlung radiation synchrotron radiation Compton scattering some plasma effects and radiative transitions in atoms Discussion begins with first principles physically motivating and deriving all results rather than merely presenting finished formulae However a reasonably good physics background introductory quantum mechanics intermediate electromagnetic theory special relativity and some statistical mechanics is required Much of this prerequisite material is provided by brief reviews making the book a self contained reference for workers in the field as well as the ideal text for senior or first year graduate students of astronomy astrophysics and related physics courses Radiative Processes in Astrophysics also contains about 75 problems with solutions illustrating applications of the material and methods for calculating results This important and integral section emphasizes physical intuition by presenting important results that are used throughout the main text it is here that most of the practical astrophysical applications become apparent

Radiation Processes in Astrophysics Wallace H. Tucker, 1975 The purpose of this book is twofold to provide a brief simple introduction to the theory of radiation and its application in astrophysics and to serve as a reference manual for researchers The first part of the book consists of a discussion of the basic formulas and concepts that underlie the classical and quantum descriptions of radiation processes The rest of the book is concerned with applications The spirit of the discussion is to present simple derivations that will provide some insight into the basic physics involved and then to state the exact results in a form useful for applications The reader is referred to the original literature and to reviews for rigorous derivations The wide range of topics covered is illustrated by the following table of contents Basic Formulas for Classical Radiation Processes Basic Formulas for Quantum Radiation Processes Cyclotron and Synchrotron Radiation Electron Scattering Bremsstrahlung and Collision Losses Radiative Recombination The Photoelectric Effect and Emission and Absorption Lines

Coherent Radiation Processes in Astrophysics Stephen Mark White, 1984 *Physics of the Galaxy and Interstellar Matter* Helmut Scheffler, Hans Elsässer, 2012-12-06 The present book is a translation of the original German edition published in 1982 with some minor corrections and improvements The guide to supplementary and advanced literature given in the Appendix however has been brought up to date This book is addressed primarily to students taking astronomy as a principal or subsidiary subject and to scientists of related fields but amateur astronomers should also be able to profit from it For most chapters an elementary knowledge of mathematics and physics will be sufficient however Chaps 5 and 6 impose somewhat greater requirements In addition the reader should already be acquainted with the basic concepts of stellar physics as treated in introductory books including the spectral types the system of stellar magnitudes and

colours absolute magnitudes and luminosities the Hertzsprung Russell diagram and its interpretation A modern textbook should use SI units On the other hand the use of the cgs system is still the prevailing custom in astrophysics together with the special units of astronomy length is quoted in parsecs pc mass in solar masses M_{\odot} and time in years A We have therefore compromised and employed both cgs and SI units in this book whichever was the appropriate choice in each instance A table for conversion of cgs units into SI units and vice versa is given in the Appendix

Radiation Processes in High Energy Astrophysics P. W. Guilbert, 1981

Tools of Radio Astronomy Thomas L. Wilson, Kristen Rohlfs, Susanne Hüttemeister, 2013-12-05 This 6th edition of Tools of Radio Astronomy the most used introductory text in radio astronomy has been revised to reflect the current state of this important branch of astronomy This includes the use of satellites low radio frequencies the millimeter sub mm universe the Cosmic Microwave Background and the increased importance of mm sub mm dust emission Several derivations and presentations of technical aspects of radio astronomy and receivers such as receiver noise the Hertz dipole and beam forming have been updated expanded re worked or complemented by alternative derivations These reflect advances in technology The wider bandwidths of the Jansky VLA and long wave arrays such as LOFAR and mm sub mm arrays such as ALMA required an expansion of the discussion of interferometers and aperture synthesis Developments in data reduction algorithms have been included As a result of the large amount of data collected in the past 20 years the discussion of solar system radio astronomy dust emission and radio supernovae has been revisited The chapters on spectral line emission have been updated to cover measurements of the neutral hydrogen radiation from the early universe as well as measurements with new facilities Similarly the discussion of molecules in interstellar space has been expanded to include the molecular and dust emission from protostars and very cold regions Several worked examples have been added in the areas of fundamental physics such as pulsars Both students and practicing astronomers will appreciate this new up to date edition of Tools of Radio Astronomy

Optical Astronomical Spectroscopy C.R. Kitchin, 1995-01-01 A concise introduction Optical Astronomical Spectroscopy appeals to the newcomer of astronomical spectroscopy and assumes no previous specialist knowledge Beginning from the physical background of spectroscopy with a clear explanation of energy levels and spectroscopic notation the book proceeds to introduce the main techniques of optical spectroscopy and the range of instrumentation that is available With clarity and directness it then describes the applications of spectroscopy in modern astronomy such as the solar system stars nebulae the interstellar medium and galaxies giving an immediate appeal to beginners

Millimetre and Submillimetre Astronomy R.D. Wolstencroft, W.B. Burton, 2012-12-06 The millimetre and submillimetre spectral region 300 to 3000 μm or 1000 to 100 GHz was until recently one of the few spectral regimes not fully opened up for astronomical studies Thanks both to improvements in detectors and receivers and to the construction of large telescopes at high altitude sites this situation is improving very rapidly Three major telescopes have been built recently and are coming into operation during 1987 and 1988 namely the 15m James Clerk Maxwell Telescope JCMT and the IOAm

Caltech Submillimetre Observatory CSO telescope both located on Mauna Kea Hawaii and the 15 m Swedish ESO telescope SEST in Chile Because a very wide range of astronomical problems can be tackled with these major new facilities there is a great deal of interest from the many potential new users anxious to become familiar with this rapidly developing field During 1986 it became clear to British and Dutch astronomers involved in planning the commissioning and operation of the JCMT that a summer school in this field would greatly benefit the potential and actual JCMT user community With financial support from the SERC and supplemented by a grant from the ZWO the Summer School on Millimetre and Submillimetre Astronomy was held at Stirling University from June 21 to 27 1987

Tools of Radio Astronomy T. L. Wilson, Kristen Rohlfs, Susanne Hüttemeister, 2008-11-14 Four significant factors have led us to update this text The first is the breathtaking progress in technology especially in receiver and digital techniques The second is the advance of radio astronomy to shorter wavelengths and the increased availability of astronomical satellites The third is a need to reorganize some of the chapters in order to separate the basic theory that seldom changes from practical aspects that change often Finally it is our desire to enhance the text by including problem sets for each chapter In view of this ambitious plan we have expanded the number of authors In the reorganization of this edition we have divided Chap 4 of the 4th edition into two Chaps 4 and 5 The first remains Chap 4 with a slightly different title Signal Processing and Receivers Theory This was expanded to include digital processing and components including samplers and digitizers In Chap 5 Practical Receiver Systems we have relegated the presentations of maser and parametric amplifier front ends which are no longer commonly used as microwave receivers in radio astronomy to a short section on historical developments and We have retained and improved the presentations of current state of the art devices cooled transistor and superconducting front ends We have also included descriptions of local oscillators and phase lock loops Chapters 5 and 6 in the 4th edition has now become Chap 6 Fundamentals of Antenna Theory and Chap

Radiative Processes in High Energy Astrophysics Gabriele Ghisellini, 2013-06-03 This book grew out of the author's notes from his course on Radiative Processes in High Energy Astrophysics The course provides fundamental definitions of radiative processes and serves as a brief introduction to Bremsstrahlung and black body emission relativistic beaming synchrotron emission and absorption Compton scattering synchrotron self Compton emission pair creation and emission The final chapter discusses the observed features of Active Galactic Nuclei and their interpretation based on the radiative processes presented in the book Written in an informal style this book will guide students through their first encounter with high energy astrophysics

Astrophysical Formulae Kenneth R. Lang, 2013-06-29 This second edition contains corrections of misprints and errors found by the author as well as those suggested during the Russian translation of the first printing The Russian editors and translators who kindly supplied this material include V E CHERTOPRUD A G DOROSHEVICH V L HOHLOVA M Yu KHLPOV D K NADIOZHIN L M ZERNOI I G PERSIANTSEV L A POKROVSKII A V ZASOV and Yu K ZEMTSOV Supplemental references for the period 1974 to 1980 have also been added as appendix where they are included under the

headings of general references and specific references for each chapter Although specialized references come mainly from American journals references to reviews and books are also included to help guide the reader to other sources The author encourages suggestions for additions and corrections to possible future editions of this volume KENNETH R LANG
Department of Physics Tufts University Medford Massachusetts January 1980 Preface This book is meant to be a reference source for the fundamental formulae of astrophysics Wherever possible the original source of the material being presented is referenced together with references to more recent modifications and applications More accessible reprints and translations of the early papers are also referenced In this way the reader is provided with the often ignored historical context together with an orientation to the more recent literature

Astronomy Methods Hale Bradt, 2004 Astronomy Methods is an introduction to the basic practical tools methods and phenomena that underlie quantitative astronomy Taking a technical approach the author covers a rich diversity of topics across all branches of astronomy from radio to gamma ray wavelengths Topics include the quantitative aspects of the electromagnetic spectrum atmospheric and interstellar absorption telescopes in all wavebands interferometry adaptive optics the transport of radiation through matter to form spectral lines and neutrino and gravitational wave astronomy Clear systematic presentations of the topics are accompanied by diagrams and problem sets Written for undergraduates and graduate students this book contains a wealth of information that is required for the practice and study of quantitative and analytical astronomy and astrophysics

Tools of Radio Astronomy Kristen Rohlfs, T. L. Wilson, 2013-03-14 Progress in the fields of science and technology is again the reason for updating this text most changes occur in Chaps 4 7 8 and 14 in the others we have made a number of minor improvements In Chap 4 Signal Processing and Receivers we have shortened the presentation of maser and parametric amplifier front ends which are no longer commonly used as microwave receivers in radio astronomy Instead we have expanded the presentation of cooled transistor and superconducting front ends and we have added a short section on coherent multi beam receiver systems The chapter titled Observational Methods now appears as Chap 7 and mainly addresses single dish observations Chapter 8 now concerns Interferometers and Aperture Synthesis Aperture synthesis has become the single important imaging technique in observational astronomy and its use most has spread from the radio frequency range into other wavelength bands providing the only general method available for obtaining images of extremely high resolution and quality The discussion of the foundations for aperture synthesis therefore have been extended and hopefully improved Both the hardware and the software instrumentation is now collected in this chapter

Beyond the Standard Model Cocktail Yann Gouttenoire, 2023-01-01 This book provides a remarkable and complete survey of important questions at the interface between theoretical particle physics and cosmology After discussing the theoretical and experimental physics revolution that led to the rise of the Standard Model in the past century the author reviews all the major open puzzles among them the hierarchy problem the small value of the cosmological constant the matter antimatter asymmetry and the dark matter enigma including the state of

the art regarding proposed solutions Also addressed are the rapidly expanding fields of thermal dark matter cosmological first order phase transitions and gravitational wave signatures In addition the book presents the original and interdisciplinary PhD research work of the author relating to Weakly Interacting Massive Particles around the TeV scale which are among the most studied dark matter candidates Motivated by the absence of experimental evidence for such particles this thesis explores the possibility that dark matter is much heavier than what is conventionally assumed Gamma-Ray Astronomy E.L. Chupp,2012-12-06 Observation of discrete energy electromagnetic emissions from celestial objects in the radio IR optical IN and X ray spectral regions has dramatically advanced our know ledge in the field of astrophysics It is expected that identification of nuclear Y ray line emissions from any cosmic source would also prove to be a powerful new tool for probing the Universe Since the publication of Morrison s work in 1958 many experiments were carried out searching for evidence of Y ray lines from cosmic sources however with little success Only a few positive experimental results have been reported in spite of an expenditure of considerable effort by many people in particular the possible Galactic Center emission line 473 to 530keV and Y ray lines at several energies e g 0 5 MeV and 2 2 MeV associated with large solar flares Both of these observations are unconfirmed by indepen dent observations ca 1975 The high energy Y rays 30MeV from the Galactic Center are at least partly due to the decay of 1 0 mesons which are of unique energy 67 5 MeV in the 1 0 rest frame only The reasons for the limited amount of data avail able in this field even though early theoretical predictions were very optimistic regarding fluxes of nuclear lines are that experimental efforts are plagued with high backgrounds and low fluxes and that development of instruments with telescopic properties in the energy range of interest is difficult **Nuclear Science Abstracts** ,1975-10 Astrophysical Formulae Kenneth Lang,2006-02-22 This classic reference for the fundamental formulae of physics and astrophysics has become part of nearly every astronomers and astrophysicists library A magnificent compendium OPTICA ACTA ON THE FIRST EDITION The Theory of Coherent Atomic Excitation, Simple Atoms and Fields Bruce W. Shore,1990 This book examines the nature of the coherent excitation produced in atoms by lasers It examines the detailed transient variation of excited state populations with time and with controllable parameters such as laser frequency and intensity *Scientific and Technical Aerospace Reports* ,1994 **A Bibliography of Astronomy, 1970-1979** Robert A. Seal,Sarah S. Martin,1982

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