

Physics of Luminous Blue Variables

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Physics Of Luminous Blue Variables

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van der Hucht, P.A. Zaal**



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Physics of Luminous Blue Variables Kris Davidson, Anthony F.J. Moffat, Henney J.G.L.M. Lamers, 2012-12-06 A strange field of speculation is opened by this phenomenon here we have a star fitfully variable to an astonishing extent and whose fluctuations are spread over centuries apparently in no settled period and with no regularity of progression What origin can we ascribe to these sudden flashes and relapses What conclusions are we to draw as to the comfort or habitability of a system depending for its supply of light and heat on so uncertain a source J F W Herschel We can imagine at least that the study of Luminous Blue Variable stars began as the official court astrophysicists of Eridu speculated about a new 5000 years ago first magnitude star which persisted in their southern sky for several years 2 After that the topic languished for a while but now it has been renewed following recent observations by Blaeu P Cygni c 1600 and Herschel 1 Argus c 1840 More soberly it is only within the past few years that we have begun to understand LBV s and to recognize their coherence as a class Thus only a minority of astronomers are familiar yet with this relatively new topic whose potential implications are of great interest see below One purpose of this book we hope will be to provide an accessible overview of the subject for interested astronomers and astrophysicists in general **Physics of Luminous Blue Variables ...**, 1989 **Physics of**

Luminous Blue Variables Kris Davidson, Anthony F.J. Moffat, Hermanus Lamers, 1989-09-30 A strange field of speculation is opened by this phenomenon here we have a star fitfully variable to an astonishing extent and whose fluctuations are spread over centuries apparently in no settled period and with no regularity of progression What origin can we ascribe to these sudden flashes and relapses What conclusions are we to draw as to the comfort or habitability of a system depending for its supply of light and heat on so uncertain a source J F W Herschel We can imagine at least that the study of Luminous Blue Variable stars began as the official court astrophysicists of Eridu speculated about a new 5000 years ago first magnitude star which persisted in their southern sky for several years 2 After that the topic languished for a while but now it has been renewed following recent observations by Blaeu P Cygni c 1600 and Herschel 1 Argus c 1840 More soberly it is only within the past few years that we have begun to understand LBV s and to recognize their coherence as a class Thus only a minority of astronomers are familiar yet with this relatively new topic whose potential implications are of great interest see below One purpose of this book we hope will be to provide an accessible overview of the subject for interested astronomers and astrophysicists in general Stellar Jets and Bipolar Outflows L. Errico, Alberto A. Vittone, 2012-12-06 In the last few years great improvements in the study of stellar jets and bipolar outflows have been achieved both observationally and theoretically High resolution observations at various frequencies radio IR optical and X ray of these features in different types of objects have shown a large variety of morphologies at all scales often revealing contrasting symmetries which do not allow straightforward kinematic interpretations valid for all cases In particular at present it seems very difficult to give a statistical definition of what the standard properties of jets and bipolar outflows are On the theoretical side the identification

of physical processes capable of producing the observed rich morphological variety of jets and bipolar outflows and supporting them over long lifetimes is still controversial Furthermore several models are actively discussed in an attempt of reaching a complete understanding of the phenomenon The workshop provided an unique opportunity for both observers and theoreticians to gather together and produce an updated and exhaustive picture of the field In addition the meeting has been enriched by the presentation of some works on jets in external galaxies This topic was focused on what people working on stellar jets could learn from colleagues working on extragalactic jets and vice versa Invited papers were prepared with the aim of giving the state of the art about scientific subjects contributed papers and some selected poster papers presented on the contrary very recent results in the various fields

Angular Momentum and Mass Loss for Hot Stars L.A. Willson,R. Stalio,2012-12-06 Fundamental unsolved problems of stellar astrophysics include the effects of angular momentum on stellar structure and evolution the nature and efficiency of the processes by which angular momentum is redistributed within and lost from stars and the role that stellar rotation plays in enhancing or driving stellar mass loss There appears to be a qualitative change in the nature and efficiency of these mechanisms near spectral type FO hotter more massive stars typically retain more angular momentum at least until they reach the main sequence while cooler stars typically spin down quickly For the hotter stars recent work suggests a strong link between the type of pulsation behavior the mass loss rates and the rotation velocity If the same mechanisms are able to drive mass loss from the main sequence A stars as has recently been proposed then the current interpretations of a number of observations will be drastically affected e g the ages of clusters may be incorrect by up to a factor of two and the surface abundances of isotopes of He Li and Be may no longer give constraints on cosmological nucleosynthesis There are also effects on the evolution of the abundances of elements in the interstellar medium and on the general evolution of populations of stars Thus the questions of the mechanisms of angular momentum and mass loss of stars more massive than the sun is important not only for stellar studies but for the foundations of much of modern astrophysics

The Impact of Binary Stars on Stellar Evolution Giacomo Beccari, Henri M. J. Boffin,2019-04-18 An advanced review of how binary stars affect stellar evolution presenting results from state of the art models and recent observations

Physics of Formation of FeII Lines Outside LTE Roberto Viotti, Alberto A. Vittone, M. Friedjung,2013-04-17 The same kind of physics is frequently common to very different fields of Astrophysics so experts in each of these fields have often much to learn from each others It was therefore logical that the International Astronomical Union should sponsor a colloquium about an ion which produces many spectral lines that can be used as a diagnostic for many sorts of objects and which may sometimes have a major influence on physical processes occurring in astrophysical sources The lines of singly ionized iron FeII are present in absorption and emission in the spectra of objects such as the Sun cool stars circumstellar envelopes of hot stars novae diffuse nebulae including the supernova remnants and active galactic nuclei These lines are very often formed far from LTE and their interpretation is not easy in view of the complex Grotrian

diagram for FeII and the gaps in the knowledge of various physical parameters In addition the density of very strong FeII lines becomes very large in the ultraviolet and the lines can play a major role in the line blanketing They need therefore to be taken into account in any energy balance argument The Astrophysics of Emission-Line Stars Tomokazu

Kogure,Kam-Ching Leung,2010-05-05 Many types of stars show conspicuous emission lines in their optical spectra These stars are broadly referred to as emission line stars Emission line stars are attractive to many people because of their spectacular phenomena and their amazing varieties and variability This book offers general information on emission line stars starting from a brief introduction to stellar astrophysics and then moving to a broad overview of emission line stars including early and late type stars as well as pre main sequence stars Detailed references and index are prepared for further reading Tomokazu Kogure s email address tkogure pa2 so net ne jp 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 consequences 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 invaluable 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 *Luminous Stars in Nearby Galaxies* Roberta M. Humphreys

,2020-12-10 Studies on the populations of luminous stars in nearby resolved galaxies have revealed a complex distribution in the luminosity temperature plane the HR diagram The fundamentals of massive star evolution are mostly understood but the roles of mass loss episodic mass loss rotation and binarity are still in question Moreover the final stages of these stars of different masses and their possible relation to each other are not understood The purpose of this volume is to provide a current review of the different populations of evolved massive stars The emphasis is on massive stars in the Local Group the Magellanic Clouds and the nearby spirals M31 and M33 **Eta Carinae and the Supernova Impostors** Kris

Davidson,Roberta M. Humphreys,2012-03-15 In 1965 Fritz Zwicky proposed a class of supernovae that he called Type V described as excessively faint at maximum There were only two members SN1961v and Eta Carinae We now know that Eta

Carinae was not a true supernova but if it were observed today in a distant galaxy we would call it a supernova impostor 170 years ago it experienced a great eruption lasting 20 years expelling 10 solar masses or more and survived Eta Carinae is now acknowledged as the most massive most luminous star in our region of the Galaxy and it may be our only example of a very massive star in a pre supernova state In this book the editors and contributing authors review its remarkable history physical state of the star and its ejecta and its continuing instability Chapters also include its relation to other massive unstable stars the massive star progenitors of supernovae and the first stars in the Universe [Wisconsin Astrophysics](#) ,1997 **The Interplay Between Massive Star Formation, the ISM and Galaxy Evolution** D. Kunth,1996 **B[e] Stars** Anne Marie Hubert,Carlos Jaschek,2013-06-29 The idea of having a meeting came to the Editors when working on several aspects of galactic Be and B e stars They found that a general summary of the properties of B e stars was missing so that the organization of a first meeting on these objects appeared as very useful B e stars have hydrogen line emission and forbidden Fe II and O I emission lines in their spectra they are also characterized by a strong IR excess due to circumstellar dust Having a large amount of extinction in the UV and the visual they have been less frequently observed than other emission line objects Although about one hundred galactic objects have been classified as B e only fifteen or so have been studied in some detail Besides this the evolutionary status of these objects is rather controversial are they pre main sequence or stars on the way to become nuclei of planetary nebulae Other difficult problems appear when considering the relations of these stars with other similar groups like Herbig AeBe stars Be luminous blue variables and the superluminous B e stars observed in the Magellanic Clouds The conference seems timely since large surveys like DENIS and 2Mass plus new space and new instruments for the micron millimeter and centimeter wavelength region will result in the discovery of more stars of this group **Encyclopedia of Astronomy & Astrophysics** P Murdin,2001-01-01 In a unique collaboration Nature Publishing Group and Institute of Physics Publishing have published the most extensive and comprehensive reference work in astronomy and astrophysics This unique resource covers the entire field of astronomy and astrophysics and this online version includes the full text of over 2 750 articles plus sophisticated search and retrieval functionality and links to the primary literature The Encyclopaedia's authority is assured by editorial and advisory boards drawn from the world's foremost astronomers and astrophysicists This first class resource is an essential source of information for undergraduates graduate students researchers and seasoned professionals as well as for committed amateurs librarians and lay people wishing to consult the definitive astronomy and astrophysics reference work [Reports on Astronomy](#) Derek McNally,2012-12-06 IAU Transactions are published as a volume corresponding to each General Assembly Volume A is produced prior to the Assembly and contains Reports on Astronomy prepared by each Commission President The intention is to summarize the astronomical results that have affected the work of the Commission since the production of the previous Reports up to a time which is about one year prior to the General Assembly Volume B is produced after the Assembly and contains accounts of Commission

Meetings which were held together with other material The reports included in the present volume range from outline summaries to lengthy compilations and references

Reviews in Modern Astronomy Gerhard Klare, 2012-12-06 The International Scientific Spring Meeting of the Astronomische Gesellschaft AG held at Bamberg in April 1991 was devoted to Variabilities in Stars and Galaxies Time dependent phenomena are observed in a wide range of astronomical objects They are caused by different physical mechanisms for example by pulsation by accretion or by dramatic eruptive events in connection with mass outflow producing observable intensity variations through all wavelengths Many of the papers in this volume are concerned with galactic stars showing such behaviour for example cataclysmic variables symbiotic stars luminous blue variables LBVs and novae Intrinsic variations of the magnetic field structure on observable time scales are for instance a peculiarity of cool solar like stars and represent a useful tool to study differential rotation and cycles of activity Recent results on the investigation of gas motions in the inner regions of the Milky Way system a study of the bipolar galaxy M 82 observations of variable extragalactic radio sources the variability of emission lines in active galactic nuclei AGN as well as continuum variations of quasars and AGN are discussed by several authors The yearbook series Reviews in Modern Astronomy of the AG to bring the scientific events of the was established in 1988 in order meetings of the society to the attention of the worldwide astronomical community

Evolution of Massive Stars D. Vanbeveren, W. van Rensbergen, C. de Loore, 2012-12-06 Massive stars occupy an exceptional place in general astrophysics They trigger many if not all of the important processes in galactic evolution whereas due to their intrinsic brightness they offer the only until now possibility to study the stellar content and stellar behaviour in distant galaxies The last say 25 years massive stars have been the subject of numerous meetings discussing the influence of massive stars on population synthesis the number distribution of different types of massive stars the LBV phenomenon WR stars X ray binaries stellar winds in massive stars chemical peculiarities in massive stars supernova explosions of massive stars and the important SN1987A event the influence of massive stars and chemical evolution of galaxies It is clear that without a theory of stellar evolution the study of these topics loses a lot of its significance Massive star evolution therefore got a chance in these meetings but rarely as a prime subject The state of the art the physical processes and the uncertainties in stellar evolution were barely touched Even more the influence of close binaries in all these massive star meetings slowly disappeared the last say 13 years without any scientific justification although a significant fraction of stars occurs in close binaries with periods small enough so that both components will interact during their evolution Denying the binaries or not discussing their influence on results and conclusions makes the latter very uncertain or even completely unreliable

Nonisotropic and Variable Outflows from Stars Laurent Drissen, Claus Leitherer, Antonella Nota, 1992

Astrophysics and Space Science L.B.F.M. Waters, C. Waelkens, Karel A. van der Hucht, P.A. Zaal, 1998-08-31 This conference proceedings contains review papers and contributed papers discussing early results from the Infrared Space Observatory ISO on the subject of stellar evolution Three topics have been emphasized in the book young

stellar objects and Vega type stars circumstellar matter of massive stars and late stages of stellar evolution The very rich harvest of new results from ISO is demonstrated by the many discoveries of new solid state and molecular bands in the spectra of stars and circumstellar shells and by spectacular images of circumstellar and interstellar matter The book is intended for professional astronomers and students

Embracing the Beat of Appearance: An Psychological Symphony within **Physics Of Luminous Blue Variables**

In some sort of consumed by displays and the ceaseless chatter of instantaneous conversation, the melodic beauty and psychological symphony developed by the published term usually diminish in to the back ground, eclipsed by the persistent sound and disruptions that permeate our lives. However, nestled within the pages of **Physics Of Luminous Blue Variables** a marvelous literary treasure full of natural thoughts, lies an immersive symphony waiting to be embraced. Constructed by an outstanding musician of language, this interesting masterpiece conducts readers on a psychological trip, well unraveling the hidden melodies and profound influence resonating within each cautiously crafted phrase. Within the depths of this touching evaluation, we can discover the book is key harmonies, analyze their enthralling writing type, and surrender ourselves to the profound resonance that echoes in the depths of readers souls.

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