

# Reviews in Modern Astronomy 25

## The Bright and the Dark Sides of the Universe

The first publication of the "Astronomische Gesellschaft" (AG), the *Vierteljahresschrift der Astronomischen Gesellschaft*, was established back in 1866. However, its last volume was published in 1944. From 1949 to 1987 the so-called *Mitteilungen der Astronomischen Gesellschaft* was the only publication of the society. It still was almost exclusively written in German. The individual issues comprised scientific papers, annual reports of the observatories and astronomical institutes of Germany, Austria, and Switzerland, and administrative business matters of the AG. Typically two or three issues appeared each year. In 1988 the AG edited the first volume of a new series of publications, the *Reviews in Modern Astronomy*.

In order to make the scientific events of the meetings of the AG more international and bring them to the attention of the worldwide astronomical community, it was decided to devote the *Reviews in Modern Astronomy* to the products of the large annual fall meetings of the AG, now written solely in English. In particular, it emphasized the Karl Schwarzschild Lectures, the Ludwig Biermann Award Lectures, the invited reviews, and the highlight contributions on recent progress and achievements from leading scientists. The most prestigious of them, the Karl Schwarzschild Lectures, constitutes a special series of reviews by outstanding scientists who have been awarded the Karl Schwarzschild Medal during the fall meeting of the AG. At the same time, excellent young astronomers are honored by the Ludwig Biermann Award. In 2010 the "Doctoral Thesis Award" was established to honor the most outstanding Doctoral Thesis of the past year.

Starting last year the *Reviews in Modern Astronomy* will appear in the *Astronomische Nachrichten/Astronomical Notes* (AN), one of the first international journals in the field of astronomy founded in 1821. Although issues of this journal require a subscription, the papers of the annual *Reviews in Modern Astronomy* are available free in the Wiley Online Library.

The current issue of AN is Volume 25 of the *Reviews in Modern Astronomy* and presents selected papers given at the International Scientific Conference of the Society on "The Bright and the Dark Sides of the Universe" held in Hamburg, Germany, September 24–28, 2012. It was the sixth time that Hamburg hosted a meeting of the AG, in 2012 commemorating the 100th anniversary of the Hamburg Observatory in Hamburg-Bergedorf. The meeting was attended by more than 300 participants from around the world.

The Karl Schwarzschild Medal 2012 was awarded to Professor Sandra M. Faber, Santa Cruz (CA, USA). Her lecture with the title "LambdaCDM Galaxy Formation: A 30-Year Status Report" opened the meeting. The manuscript of the Karl Schwarzschild lecture will not be published. The talk presented by the Ludwig Biermann Award winner 2012, Dr. Cecilia Scannapieco, Potsdam, dealt with the topic "Cosmological Simulations of Galaxy Formation: Successes and Challenges in the Era of Supercomputers". The Doctoral Thesis Award 2012 was awarded to Dr. Julius Donnert, Bologna. In his lecture he discussed the subject "Modelling giant radio halos". Other contributions to the meeting, and published in this issue, compare the "bright" with the "dark" sides of the Universe and discuss, among other subjects, the future science potential of SOFIA, the different aspects of magnetic fields in the Universe, exoplanets and first stars, and the LOFAR view of cosmic magnetism.

The AG would like to thank the lecturers for their stimulating presentations. Thanks also to the local organizing committee from the "Hamburg Observatory", chaired by Dieter Engels.

*Regina v. Berlepsch*  
Editor *Reviews in Modern Astronomy*

# Reviews In Modern Astronomy

**Gerhard Klare**



## **Reviews In Modern Astronomy :**

**Reviews in Modern Astronomy 5** Gerhard Klare,1992      *Reviews in Modern Astronomy 2* 3Island Press,1989-12-19

Reviews in Modern Astronomy 2 Gerhard Klare,2012-12-06 The second yearbook published by the Astronomische Gesellschaft presents the breadth and depth of current astronomical research Martin Rees Schwarzschild Lecture Is there a massive black hole in every galaxy is followed by several extensive surveys of the new research opportunities opening up with the next generation of telescopes dedicated satellites and innovative instrumentation Among others themes the spectroscopy of SN 198 A chemically peculiar stars and extragalactic radio jets are dealt with at length The volume is rounded off by shorter reviews of up front research topics ranging from accretion disks and solar physics to cosmic rays and stellar evolution      **Reviews in Modern Astronomy** ,1994      **Reviews in Modern Astronomy 2** Gerhard Klare,1989

*Zooming in* Regina von Berlepsch,2013-10-14 High resolution is a key element in research in astronomy and cosmology Advances in instrumentation and new methods are enabling us to constantly make new exciting discoveries and progress in theoretical modelling allows us to gain a deeper understanding of cosmic physics One example of this progress in instrumentation and observing strategy have made possible the discovery of a rich population of low mass planets orbiting solar type stars Michel Mayor et al Karl Schwarzschild Lecture 2010 This 23rd volume in the series Reviews of Modern Astronomy contains 14 invited reviews and highlight contributions presented during the 2010 annual meeting of the Astronomical Society on the topic Zooming in The cosmos at high resolution held in Bonn Germany in September 2010

**Reviews in Modern Astronomy** ,2003      **Reviews in Modern Astronomy 2** Gerhard Klare,1989-12-19 The second yearbook published by the Astronomische Gesellschaft presents the breadth and depth of current astronomical research Martin Rees Schwarzschild Lecture Is there a massive black hole in every galaxy is followed by several extensive surveys of the new research opportunities opening up with the next generation of telescopes dedicated satellites and innovative instrumentation Among others themes the spectroscopy of SN 198 A chemically peculiar stars and extragalactic radio jets are dealt with at length The volume is rounded off by shorter reviews of up front research topics ranging from accretion disks and solar physics to cosmic rays and stellar evolution      **Reviews in Modern Astronomy 17** ,2004      **Reviews in**

**Modern Astronomy** Gerhard Klare,2012-12-06 The yearbook series Reviews in Modern Astronomy of the Astronomische Gesell three years ago in order to bring the scientific events schaft AG was established of the meetings of the society to the attention of the worldwide astronomical community Reviews in Modern Astronomy is devoted exclusively to the invited reviews the Karl Schwarzschild lectures and the highlight contributions from leading scientists reporting on recent progress and scientific achievements at their research institutes Volume 4 comprises all eighteen contributions which were presented during the fall meeting of the AG at Preiburg Breisgau in September 1990 They cover problems in solar research and the solar system as well as the first results of the ROSAT and Hipparcos space missions stellar and extragalactic studies and

Supernova 1987A in the Large Magellanic Cloud The Karl Schwarzschild Medal was awarded to Professor Eugene Parker<sup>1</sup> His lecture entitled Convection Spontaneous Discontinuities and Stellar Winds and X Ray Emission begins this volume

**Reviews in Modern Astronomy** Siegfried Röser,1988      Reviews in Modern Astronomy Regina von Berlepsch,2014

**Une belle initiative. La "Comédie de Paris" fera jouer les artistes chômeurs et ramènera le théâtre dans les provinces. [Fond. Guy Rapp].** ,1935      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      **Reviews in Modern Astronomy 14** ,2001      *Formation and Evolution of Cosmic Structures* Siegfried Röser,2010-02-16 This 21st volume in the series contains 15 invited reviews and highlight contributions presented during the 2008 International Scientific Conference of the German Astronomical Society on the topic of New Challenges to European Astronomy held in Vienna Austria The papers discuss a wide range of hot topics including cosmology high energy astrophysics astroparticle physics gravitational waves extragalactic and stellar astronomy together representing the roadmap for modern astrophysical research      **Reviews in Modern Astronomy, The Many Facets of the Universe** Siegfried Röser,2006-10-16 Volume 19 continues the **Reviews in Modern Astronomy** with invited reviews and highlight contributions which were presented during the International Scientific Conference of the Astronomical Society on the topic The Many Facets of the Universe Revelations by New Instruments held at the University of Cologne Germany September 26 October 1 2005 The contributions to the meeting published in this volume discuss among other subjects astrochemistry astrobiology cosmology star and planet formation and present overviews on new instruments in the infrared and sub millimeter wavelength range Highlight Karl Schwarzschild Lecture by G A Tammann Basel The Ups and downs of the Hubble constant      *Reviews in Modern Astronomy 6* ,1993      **Deciphering the Universe through Spectroscopy** Regina von Berlepsch,2011-08-24 This 22nd volume in the series contains 15 invited reviews and highlight contributions from

outstanding speakers presented during the 2009 annual meeting of the Astronomical Society on the subject of Deciphering the Universe through Spectroscopy held in Potsdam Germany Topics range from the measurements of magnetic fields on the surface of the sun via detailed measurements of abundances in stellar atmospheres to the kinematics of the universe at its largest scales The result is a systematic overview of the latest astronomical and cosmological research      **Reviews in**  
**Modern Astronomy 12** ,1999

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