

# **Alma Telescope**

**Rafael Bachiller, José Cernicharo Quintanilla**

The ALMA Telescope Paul A. Vanden Bout, Robert L. Dickman, Adele L. Plunkett, 2023-08-17 An insiders' account of the ALMA mega-project, for a broad spectrum of readers from scientists and historians to general readers.

**The Atacama Large Millimeter Array** National Research Council, Division on Engineering and Physical Sciences, Space Studies Board, Board on Physics and Astronomy, Committee on Astronomy and Astrophysics, Committee to Review the Science Requirements for the Atacama Large Millimeter Array, 2005-11-27 The 1991 NRC decadal survey for astronomy and astrophysics included a project called the Millimeter Array (MMA). This instrument would be an array of millimeter-wavelength telescopes intended to capture images of star-forming regions and distant star-burst galaxies. With the addition of contributions from Europe, the MMA evolved into the Atacama Large Millimeter Array (ALMA), a proposed array of 64, 12-meter antennas. The project is now part of the NSF Major Research Equipment and Facilities budget request. Increased costs, however, have forced the NSF to reconsider the number of antennas. To help with that review, NSF asked the NRC to assess the scientific consequences of reducing the number of active antennas from 60 to either 50 or 40. This report presents an assessment of the effect of downsizing on technical performance specifications, performance degradation, and the ability to perform transformational science, and of the minimum number of antennas needed.

**Recollections of "Tucson Operations"** M.A. Gordon, 2006-03-30 A personal account of the evolution of millimeter-wave astronomy at the US National Radio Astronomy Observatory. The author recounts the behind-

the-scenes activities of the staff from the beginnings at Kitt Peak to the closing of the Tucson offices.

*Science with the Atacama Large Millimeter Array:*  
Rafael Bachiller, José Cernicharo Quintanilla, 2008-04-03  
Currently under construction in Northern Chile, the Atacama Large Millimeter Array (ALMA) is the most ambitious astronomy facility under construction. This book describes the enormous capabilities of ALMA, the state of the project, and most notably the scientific prospects of such a unique facility. The book includes reviews and recent results on most hot topics of modern astronomy. It looks forward to the revolutionary results that are likely to be obtained with ALMA.

**Astronomically Speaking** C.C. Gaither, Alma E Cavazos-Gaither, 2003-08-01 To understand the history, accomplishments, failures, and meanings of astronomy requires a knowledge of what has been said about astronomy by philosophers, novelists, playwrights, poets, scientists, and laymen. With this in mind, *Astronomically Speaking: A Dictionary of Quotations on Astronomy and Physics* serves as a guide to what has been said about astronomy through the ages. Containing approximately 1,550 quotations and numerous illustrations, this resource is the largest compilation of astronomy and astrophysics quotations published to date. Devoted to astronomy and the closely related areas of mathematics and physics, this resource helps form an accurate picture of these interconnected disciplines. It is designed as an aid for general readers with little knowledge of astronomy who are interested in astronomical topics. Students can use the book to increase their understanding of the complexity and richness that exists in scientific disciplines. In addition, experienced scientists will find it as a handy source of quotes for use in the classroom, in papers, and in

presentations. A quick glance through the table of contents illustrates the variety of topics discussed. Readers can quickly and easily access the wit and wisdom of several hundred scientists, writers, philosophers, poets, and academics using the comprehensive indexes.

**Europe to the Stars** Govert Schilling, Lars Lindberg Christensen, 2013-02-01 The creation of the European Southern Observatory (ESO) in 1962 was the culmination of the dream of leading astronomers from five European countries. Over the years, as more member states joined, ESO constructed the La Silla and Paranal observatories, as well as the Atacama Large Millimeter/submillimeter Array (ALMA) together with partners. ESO is now starting to build the world's biggest eye on the sky, the European Extremely Large Telescope. At the dawn of 2012, its 50th anniversary year, ESO is ready to enter a new era. One that not even its founding members could have anticipated in their boldest dreams. Constantly at the technological forefront, ESO is ready to tackle new and as yet unimaginable territories of high-precision technology and scientific discovery. Produced especially for ESO's 50th anniversary, this sumptuously illustrated book takes the reader behind the scenes of the most productive ground-based observatory in the world. It contains the best 300 of ESO's images, hand-picked from a large collection of more than 100 000 images. Beautifully produced, *Europe to the Stars* tells the story of how dreams of giant telescopes became a reality and covers many of the exciting discoveries made at La Silla and Paranal. —BBC Sky at Night, 1 February 2013 Leave the book on your coffee table, certainly, but read it first and come back to it regularly. It's an intelligent, inspiring celebration of a great European scientific adventure. —Astronomy Now, 1 March 2013

## **Observatories and Telescopes of Modern Times**

David Leverington, 2016-11-24 This volume gives an historical overview of the development of professional optical and radio observatories from 1945 to today. It covers the environment in which these facilities were developed by organisations in the United States, Europe and elsewhere, often led by larger-than-life individuals, as well as exploring the financial and political factors that both constrained and encouraged progress. As ever more expensive optical facilities were built, they exploited new technologies to significantly improve their performance: CCDs, active and adaptive optics, and spun honeycomb and segmented mirrors. The second half of this volume turns to the parallel history of radio astronomy facilities throughout the world, finishing with the ALMA observatory in Chile. This is the ground-based companion to the author's previous work on space astronomy, *New Cosmic Horizons* (2001). It is written for both technical and non-technical readers interested in the modern history of astronomy and its observational facilities.

**Thermal Design and Thermal Behaviour of Radio Telescopes and their Enclosures** Albert Greve, Michael Bremer, 2010-03-17 Radio telescopes as well as communication antennas operate under the influence of gravity, temperature and wind. Among those, temperature influences may degrade the performance of a radio telescope through transient changes of the focus, pointing, path length and sensitivity, often in an unpredictable way. *Thermal Design and Thermal Behaviour of Radio Telescopes and their Enclosures* reviews the design and construction principles of radio telescopes in view of thermal aspects and heat transfer with the variable thermal environment; it explains supporting thermal model calculations and the application and efficiency of thermal

protection and temperature control; it presents many measurements illustrating the thermal behaviour of telescopes in the environment of their observatory sites. The book benefits scientists and radio/communication engineers, telescope designers and construction firms as well as telescope operators, observatory staff, but also the observing astronomer who is directly confronted with the thermal behaviour of a telescope.

**From Z-machines to ALMA** Andrew J. Baker, 2007

Analyzing the Physics of Radio Telescopes and Radio Astronomy Yeap, Kim Ho, Hirasawa, Kazuhiro, 2020-02-07  
In the field of astrophysics, modern developments of practice are emerging in order to further understand the spectral information derived from cosmic sources. Radio telescopes are a current mode of practice used to observe these occurrences. Despite the various accommodations that this technology offers, physicists around the globe need a better understanding of the underlying physics and operational components of radio telescopes as well as an explanation of the cosmic objects that are being detected. Analyzing the Physics of Radio Telescopes and Radio Astronomy is an essential reference source that discusses the principles of the astronomical instruments involved in the construction of radio telescopes and the analysis of cosmic sources and celestial objects detected by this machinery. Featuring research on topics such as electromagnetic theory, antenna design, and geometrical optics, this book is ideally designed for astrophysicists, engineers, researchers, astronomers, students, and educators seeking coverage on the operational methods of radio telescopes and understanding the physical processes of radio astronomy.

*The Paraboloidal Reflector Antenna in Radio Astronomy and Communication* Jacob W. M.

Baars,2007-07-16 Radio astronomers have developed techniques of calibration of large reflector antennas with radio astronomical methods, but these have not been comprehensively described. This text aims to fill this gap, taking a practical approach to the characterisation of antennas. All calculations and results in the form of tables and figures have been made with Mathematica by Wolfram Research. The reader can use the procedures for the implementation of his own input data.

*The Spatialities of Radio Astronomy* Guy

Trangoš,2023-04-28 The Spatialities of Radio Astronomy examines the multidisciplinary overlap between the spatial disciplines and the studies of science and technology through a comparative study of four of the world's most important radio telescopes. Employing detailed analysis, historical research, interviews, personal observations, and various conceptual manoeuvres, Guy Trangoš reveals the depth of spatial process active at these scientific sites and the territories they traverse. Through the conceptual frameworks of territory, hyper-concentration, and contingency, Trangoš interprets the telescope as exploded across space and time, present in multiple connected sites simultaneously, and active in the production of space. He develops a historiographic and contemporary analysis of the Atacama Large Millimeter/submillimeter Array (ALMA, Chile); the Five-hundred-meter Aperture Spherical radio Telescope (FAST, China); the Arecibo Observatory (Puerto Rico); and the MeerKAT/SKA (South Africa). These case studies are global exemplars of the different spatial transformations that occur through science. Their relationships to surrounding communities and landscapes reveal deeper constitutional processes embodied in each institutional and spatial form. This book spans the modern history of architecture and science, the studies of science,

technology and society, and urban theory. It is of specific interest to architects and designers expanding their analysis of spatial production, scholars in the study of geography, landscape, science, technology, and astronomy, and people fascinated with how these radio telescopes were conceptualised, built, and operate today.

The Astronomy Revolution Donald G. York, Owen Gingerich, Shuang-Nan Zhang, 2016-04-19 Some 400 years after the first known patent application for a telescope by Hans Lipperhey, *The Astronomy Revolution: 400 Years of Exploring the Cosmos* surveys the effects of this instrument and explores the questions that have arisen out of scientific research in astronomy and cosmology. Inspired by the international New Vision 400 conference held

*CAP2007 Conference Proceedings* ,

**The sun seen with the atacama large mm and sub-mm array (ALMA) - first results** Costas E Alissandrakis, Timothy Bastian, Masumi Shimojo, Alexander Nindos, 2023-06-05

**Commerce, Justice, Science, and Related Agencies Appropriations for 2016** United States. Congress. House. Committee on Appropriations. Subcommittee on Commerce, Justice, Science, and Related Agencies, 2015

Titan Athena Coustenis, 2008 *Titan: Exploring an Earthlike World* presents the most comprehensive description in book form of what is currently known about Titan, the largest satellite of the planet Saturn and arguably the most intriguing and mysterious world in the Solar System. Because of its resemblance to our own planet, Titan is often described as a OC frozen primitive EarthOCO and is therefore of wide interest to scientists and educated laypersons from a wide range of backgrounds. The book aims to cater to all of these by using nontechnical language wherever possible, while



maintaining a high standard of scientific rigor. The book is a fully revised and extensively updated edition of *Titan: The Earthlike Moon*, which was published in 1999, before the Cassini and Huygens missions arrived to orbit Saturn and land on Titan. As investigators on these missions, the authors use the latest results to present the most recent revelations and latest surprises about an exciting new world.

### **Development of Coherent Detector Technologies for Sub-Millimetre Wave Astronomy Observations**

Boon Kok Tan, 2015-09-15 The thesis describes the development of receiver technologies for sub-millimetre astronomy instruments, focusing on high performance coherent cryogenic detectors operating close to the superconductor gap frequency. The mixer chip which comprises the SIS devices, fed by a unilateral finline and matching planar circuits was fabricated on 15 micron silicon substrate using the recently developed Silicon-On-Insulator (SOI) technology. This offered broadband IF and RF performance, with fully integrated on-chip planar circuits resulting in an easily reproducible mixer chip and a simple mixer block. An important consequence of this design is that it can be extended to the supra-THz region and making the fabrication of multi-pixel heterodyne arrays feasible. The extension of the operation of major telescopes such as ALMA, APEX and the GLT from single pixel to large format arrays is the subject of extensive research at present time since it will allow fast mapping combined with high resolution of the submillimetre sky. The technology described in this thesis makes a major contribution to this effort.

**Radio Telescope Reflectors** Jacob W.M. Baars, Hans J Kärcher, 2017-11-18 This book demonstrates how progress in radio astronomy is intimately linked to the development

of reflector antennas of increasing size and precision. The authors describe the design and construction of major radio telescopes as those in Dwingeloo, Jodrell Bank, Parkes, Effelsberg and Green Bank since 1950 up to the present as well as millimeter wavelength telescopes as the 30m MRT of IRAM in Spain, the 50m LMT in Mexico and the ALMA submillimeter instrument. The advances in methods of structural design and coping with environmental influences (wind, temperature, gravity) as well as application of new materials are explained in a non-mathematical, descriptive and graphical way along with the story of the telescopes. Emphasis is placed on the interplay between astronomical and electromagnetic requirements and structural, mechanical and control solutions. A chapter on management aspects of large telescope projects closes the book. The authors address a readership with interest in the progress of engineering solutions applied to the development of radio telescope reflectors and ground station antennas for satellite communication and space research. The book will also be of interest to historians of science and engineering with an inclination to astronomy.

**Recollections of "Tucson Operations"** Mark Gordon, 2009-09-03 A personal account of the evolution of millimeter-wave astronomy at the US National Radio Astronomy Observatory. The author recounts the behind-the-scenes activities of the staff from the beginnings at Kitt Peak to the closing of the Tucson offices.

## **Alma Telescope** Book Review: Unveiling the Magic of Language

In an electronic digital era where connections and

knowledge reign supreme, the enchanting power of language has been much more apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Alma Telescope**," written by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we will delve to the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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