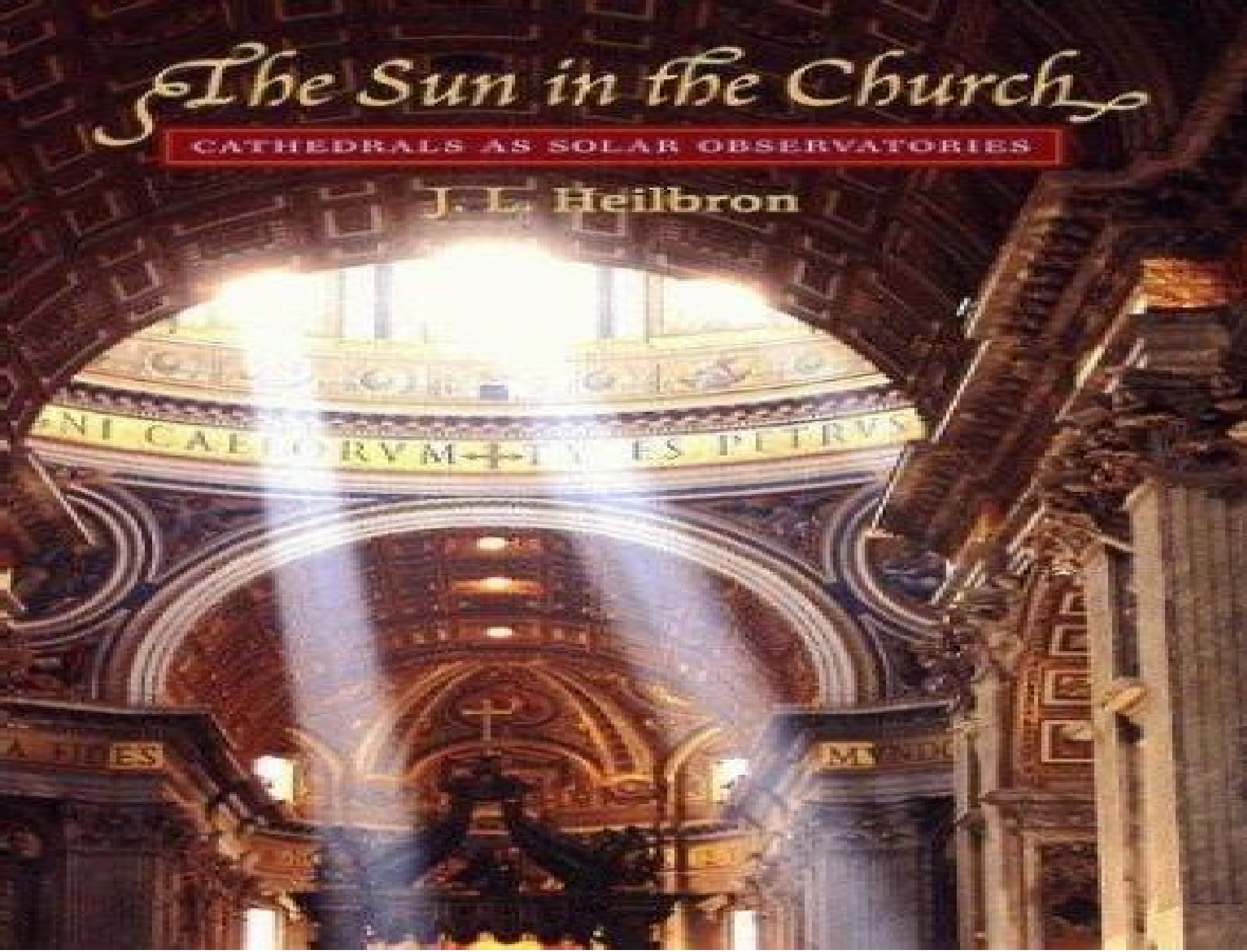


# *The Sun in the Church*

CATHEDRALS AS SOLAR OBSERVATORIES

J. L. Heilbron



# Sun In The Church Cathedrals As Solar Ob

**Guy Consolmagno, SJ, Paul Mueller, SJ**



## **Sun In The Church Cathedrals As Solar Ob:**

**The Sun in the Church** J. L. Heilbron, Professor of the History of Science John L Heilbron, 2009-06-01 Between 1650 and 1750 four Catholic churches were the best solar observatories in the world Built to fix an unquestionable date for Easter they also housed instruments that threw light on the disputed geometry of the solar system and so within sight of the altar subverted Church doctrine about the order of the universe A tale of politically canny astronomers and cardinals with a taste for mathematics The Sun in the Church tells how these observatories came to be how they worked and what they accomplished It describes Galileo s political overreaching his subsequent trial for heresy and his slow and steady rehabilitation in the eyes of the Catholic Church And it offers an enlightening perspective on astronomy Church history and religious architecture as well as an analysis of measurements testing the limits of attainable accuracy undertaken with rudimentary means and extraordinary zeal Above all the book illuminates the niches protected and financed by the Catholic Church in which science and mathematics thrived Superbly written The Sun in the Church provides a magnificent corrective to long standing oversimplified accounts of the hostility between science and religion **Galileo Goes to Jail and Other**

**Myths about Science and Religion** Ronald L. Numbers, 2010-11-08 If we want nonscientists and opinion makers in the press the lab and the pulpit to take a fresh look at the relationship between science and religion Ronald Numbers suggests that we must first dispense with the hoary myths that have masqueraded too long as historical truths Until about the 1970s the dominant narrative in the history of science had long been that of science triumphant and science at war with religion But a new generation of historians both of science and of the church began to examine episodes in the history of science and religion through the values and knowledge of the actors themselves Now Ronald Numbers has recruited the leading scholars in this new history of science to puncture the myths from Galileo s incarceration to Darwin s deathbed conversion to Einstein s belief in a personal God who didn t play dice with the universe The picture of science and religion at each other s throats persists in mainstream media and scholarly journals but each chapter in Galileo Goes to Jail shows how much we have to gain by seeing beyond the myths **Voicing Dissent in Seventeenth-century Spain** Patricia Manning, 2009 Although the

Spanish Inquisition looms large in many conceptions of the early modern Hispanic world relatively few studies have been made of the Spanish state and Inquisition s approach to book censorship in the seventeenth century Merging archival and rare book research with a case study of the fiction of Baltasar Graci n this book argues that privileged authors like the Jesuit Graci n circumvented publication strictures that were meant to ensure that printed materials conformed to the standards of Catholicism and supported the goals of the absolute monarchy In contrast to some elite authors who composed readily transparent critiques of authorities and encountered difficulties with the state and Inquisition others like Graci n made their criticisms covertly in complicated texts like *El Critic n* *The Oxford Companion to the History of Modern Science* John L. Heilbron, 2003-02-14 Containing 609 encyclopedic articles written by more than 200 prominent scholars The Oxford

Companion to the History of Modern Science presents an unparalleled history of the field invaluable to anyone with an interest in the technology ideas discoveries and learned institutions that have shaped our world over the past five centuries Focusing on the period from the Renaissance to the early twenty first century the articles cover all disciplines Biology Alchemy Behaviorism historical periods the Scientific Revolution World War II the Cold War concepts Hypothesis Space and Time Ether and methodologies and philosophies Observation and Experiment Darwinism Coverage is international tracing the spread of science from its traditional centers and explaining how the prevailing knowledge of non Western societies has modified or contributed to the dominant global science as it is currently understood Revealing the interplay between science and the wider culture the Companion includes entries on topics such as minority groups art religion and science s practical applications One hundred biographies of the most iconic historic figures chosen for their contributions to science and the interest of their lives are also included Above all The Oxford Companion to the History of Modern Science is a companion to world history modern in coverage generous in breadth and cosmopolitan in scope The volume s utility is enhanced by a thematic outline of the entire contents a thorough system of cross referencing and a detailed index that enables the reader to follow a specific line of inquiry along various threads from multiple starting points Each essay has numerous suggestions for further reading all of which favor literature that is accessible to the general reader and a bibliographical essay provides a general overview of the scholarship in the field Lastly as a contribution to the visual appeal of the Companion over 100 black and white illustrations and an eight page color section capture the eye and spark the imagination

**The New Astronomy: Opening the Electromagnetic Window and Expanding our View of Planet Earth** Wayne Orchiston, 2006-01-17 This is an unusual book combining as it does papers on astrobiology history of astronomy and sundials but after all Woody Sullivan is an unusual man In late 2003 I spent two fruitful and enjoyable months in the Astronomy Department at the University of Washington UW working on archival material accumulated over the decades by Woody for a book we will co author with Jessica Chapman on the early development of Australian astronomy The only serious intellectual distraction I faced during this period was planning for an IAU colloquium on transits of Venus scheduled for June 2004 in England where I was down to present the Cook paper I knew Woody was also interested in transits and indeed anything remotely connected with shadows see his paper on page 3 and in discussing the Preston meeting with him it transpired that his 60th birthday was timed to occur just one week later This was where the seed of Woodfest began to germinate Why not invite friends and colleagues to join Woody in Seattle and celebrate this proud event I put the idea to Woody and others at UW they liked it and Woodfest was born

*Environmental Values in Christian Art* Susan Power Bratton, [Would You Baptize an Extraterrestrial?](#) Guy Consolmagno, SJ, Paul Mueller, SJ, 2018-06-26 Witty and thought provoking two Vatican astronomers shed provocative light on some of the strange places where religion and science meet Imagine if a Martian showed up all big ears and big nose like a child s drawing and he asked to be baptized How would you react Pope Francis May 2014 Pope Francis posed that question

without insisting on an answer to provoke deeper reflection about inclusiveness and diversity in the Church But it s not the first time that question has been asked Brother Guy Consolmagno and Father Paul Mueller hear questions like that all the time They re scientists at the Vatican Observatory the official astronomical research institute of the Catholic Church In Would You Baptize an Extraterrestrial they explore a variety of questions at the crossroads of faith and reason How do you reconcile the The Big Bang with Genesis Was the Star of Bethlehem just a pious religious story or an actual description of astronomical events What really went down between Galileo and the Catholic Church and why do the effects of that confrontation still reverberate to this day Will the Universe come to an end And could you really baptize an extraterrestrial With disarming humor Brother Guy and Father Paul explore these questions and more over the course of six days of dialogue Would You Baptize an Extraterrestrial will make you laugh make you think and make you reflect more deeply on science faith and the nature of the universe

**New Approaches to Naples c.1500-c.1800** Helen Hills,2016-04-22 Early modern Naples has been characterized as a marginal wild and exotic place on the fringes of the European world and as such an appropriate target of attempts by Catholic missionaries and others to civilize the city Historiographically bypassed in favour of Venice Florence and Rome Naples is frequently seen as emblematic of the cultural and political decline in the Italian peninsula and as epitomizing the problems of southern Italy Yet as this volume makes plain such views blind us to some of its most extraordinary qualities and limit our understanding not only of one of the world s great capital cities but also of the wider social cultural and political dynamics of early modern Europe As the centre of Spanish colonial power within Europe during the vicerealty and with a population second only to Paris in early modern Europe Naples is a city that deserves serious study Further as a Habsburg dominion it offers vital points of comparison with non European sites which were subject to European colonialism While European colonization outside Europe has received intense scholarly attention its cultural impact and representation within Europe remain under explored Too much has been taken for granted Too few questions have been posed In the sphere of the visual arts investigation reveals that Neapolitan urbanism architecture painting and sculpture were of the highest quality during this period while differing significantly from those of other Italian cities For long ignored or treated as the subaltern sister of Rome this urban treasure house is only now receiving the attention from scholars that it has so long deserved This volume addresses the central paradoxes operating in early modern Italian scholarship It seeks to illuminate both the historiographical pressures that have marginalized Naples and to showcase important new developments in Neapolitan cultural history and art history Those developments showcased here include bot

Quakers, Jews, and Science G. N. Cantor,2005-09-22 This study examines how two minorities the Quaker and Anglo Jewish communities engaged with the sciences With their roots in the mid seventeenth century both communities maintained their religious and social norms throughout the eighteenth and nineteenth centuries while standing outside the hegemony of the Anglican Church and being subject to various forms of discrimination Yet for both Quakers and Jews science offered educational and career

opportunities and participation in the wider society They adopted their own scientific interests with Quakers being attracted principally to the observational sciences Drawing on a wealth of documentary material much of which has not been analysed by previous historians Geoffrey Cantor charts the involvement of Quakers and Jews in many different aspects of science scientific research science education science related careers and scientific institutions ranging from the Royal Society to the Great Exhibition BOOK JACKET Foundation, Dedication and Consecration in Early Modern Europe M. Delbeke, M. Schraven, 2011-12-09 Bringing together contributions from art history architectural history historiography and history of law this volume is the first comprehensive exploration of the manifold meanings of foundation dedication and consecration rituals and narratives in early modern culture *De Visione Stellarum* Dan Burton, 2007 In this critical edition of Nicole Oresme's 14th century treatise on atmospheric refraction Oresme uses optics and infinitesimals to help solve this vexing problem of astronomy proposing that light travels along a curve through the atmosphere centuries before Hooke and Newton

**Instruments of Knowledge** Jean-François Gauvin, 2023-06-19 In a bid to claim scientific objects as requiring a significant amount of conceptual labor this book looks sequentially at instruments habits and museums The goal is to uncover how together these material and immaterial activities rules and commitments form one meaningful and credible blueprint revealing the building blocks of knowledge production They serve to conceptualize and examine the entire life of an instrument from its ideation and craft to its use reuse circulation recycling and if not obliterated its final entry into a museum It is such an epistemological triptych that guides this investigation Building the Churches of Kievan Russia Pavel A. Rappoport, 2016-12-05 This work is the first systematic study of how monumental buildings were constructed in medieval Russia It deals specifically with ecclesiastical architecture but also discusses such secular architecture palaces or towers In scope the book covers the territory of the Kievan state and the principalities that succeeded it from the 10th century to the 13th century Pavel Aleksandrovich Rappoport was the author of many of the standard works on the architectural history of Russia whether monumental military or domestic He was also a leading archaeologist In *Building the Churches of Kievan Russia* his aim is to investigate how people went about building them from brickmaking and lime firing to the roofing and decoration from how the churches were laid out to how much brickwork was laid in a day This book treats all these processes as one integrated and interconnected procedure The detailed analysis enables Rappoport to identify the work of particular teams of builders even individual masters and to follow their progress from one site to another and one town to a second Similarly he documents how the Byzantine styles and methods of church building imported into Russia after its conversion in 989 were gradually adapted to meet the needs of local circumstances and climate This study will be of direct relevance to those concerned with the architecture and the Church of pre Mongol Russia as well as its social history The investigation of the earliest churches furthermore represents the sole extended discussion of Byzantine building practices In terms of methodology the book will be of interest to all architectural historians and archaeologists concerned with the Middle Ages

and makes accessible in English material that has hitherto only been available in Russian

**Medieval Latin Christian Texts on the Jewish Calendar** C. Philipp E. Nothaft, 2014-05-22 During the later Middle Ages twelfth to fifteenth centuries the study of chronology astronomy and scriptural exegesis among Christian scholars gave rise to Latin treatises that dealt specifically with the Jewish calendar and its adaptation to Christian purposes In *Medieval Latin Christian Texts on the Jewish Calendar* C Philipp E Nothaft offers the first assessment of this phenomenon in the form of critical editions English translations and in depth studies of five key texts which together shed fascinating new light on the avenues of intellectual exchange between medieval Jews and Christians

*In His Name* E Christopher Reyes, 2018-03-24 *In His Name* is a research into biblical history its ramifications on the thinking of mankind and its continuous alterations that serve the few

**The Living Church**, 2003-07

*On Sunspots* Galileo Galilei, Christoph Scheiner, 2024-05-31 Galileo's telescopic discoveries and especially his observation of sunspots caused great debate in an age when the heavens were thought to be perfect and unchanging Christoph Scheiner a Jesuit mathematician argued that sunspots were planets or moons crossing in front of the Sun Galileo on the other hand countered that the spots were on or near the surface of the Sun itself and he supported his position with a series of meticulous observations and mathematical demonstrations that eventually convinced even his rival On *Sunspots* collects the correspondence that constituted the public debate including the first English translation of Scheiner's two tracts as well as Galileo's three letters which have previously appeared only in abridged form In addition Albert Van Helden and Eileen Reeves have supplemented the correspondence with lengthy introductions extensive notes and a bibliography The result will become the standard work on the subject essential for students and historians of astronomy the telescope and early modern Catholicism

*Sustaining Cathedrals* Leslie J. Francis, Stephen G. Parker, 2025-09-01 In an age when churches seem to be struggling and new initiatives remain fragile cathedrals are displaying signs of resilience The field of cathedral studies has emerged to test the sustainability of this resilience This volume draws together the work of 19 individuals who are shaping the field of cathedral studies intent on describing what they see and keen to identify what could be Together they position cathedrals at the heart of Anglican ecclesiology and maintain that properly supported cathedrals serve as episcopal theological resource churches where sacred space and common ground collide Here faithful disciples can be nurtured and sustained and here the low threshold welcomes in the hungry crowds whom the disciples are called for feed and to nurture Insightful and thought provoking this book will be of interest to practitioners scholars and students of religious studies cathedral studies theology and sociology The chapters in this book were originally published in the *Journal of Beliefs Values Archives Internationales D'histoire Des Sciences*, 2000

*Ancient Astronomy* Clive L.N. Ruggles, 2005-10-21 An authoritative introduction to the fascinating topic of archaeoastronomy ancient peoples understanding and use of the skies *Ancient Astronomy An Encyclopedia of Cosmologies and Myth* draws on archaeological evidence and oral traditions to reveal how prehistoric humans perceived the skies and celestial phenomena With over 200

entries it offers a number of ways to approach ancient astronomy from key examples and case studies worldwide Stonehenge Mexican and Egyptian pyramids Chaco Canyon New Mexico the Nazca lines in Peru to general themes cosmologies calendars ancient ideas of space and time origin myths to fundamental concepts and methods how the sky has changed over the centuries how to survey a site and to the field s most frequently asked questions How did ancient peoples navigate the ocean using the stars How does astrology relate to ancient astronomy Can ancient sites be dated astronomically By revealing the astronomical significance of some of the world s most famous ancient landmarks and enduring myths and by showing how different themes and concepts are connected Ancient Astronomy An Encyclopedia of Cosmologies and Myth brings a unique authoritative perspective to an area too often left to speculation and sensationalism



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