

Epub free Knocking on heavens door how physics and scientific thinking illuminate the universe and the modern world [PDF]

The Universe The Universe The Universe and Dr. Einstein The Natural History of the Universe The Universe and Its Structure The Universe Scientific Information about the Universe and the Scientific Theories of the Evolution of the Universe The Universe and Me What's Eating the Universe? The Amazing Unity of the Universe How the Universe Got Its Spots The DNA of the Universe How It Began: A Time-Traveler's Guide to the Universe The Evolving Universe and the Origin of Life The Universe The Universe and the Atom The Structure of the Universe Before The Beginning Before the Big Bang The Universe And The Stars The Universe and the Stars The Universe in a Nutshell The Universe and Life The Universe The First Three Minutes Understanding the Universe The Universe as It Really Is The Universe The Universe and the Atom The Universe Once Before Time The Universe and Its Creation 13.8 How Old Is the Universe? The Universe 100 Stars That Explain the Universe Cycles of Time Our Universe

had been expanding for billions of years but was slowing down however data collected and analyzed since 1998 points to an accelerating universe each article in this educational anthology covers the authors insights into the new mysterious universe

Scientific Information about the Universe and the Scientific

Theories of the Evolution of the Universe *2006*

the universe and me is his most ambitious work to date a tour de force this book represents a synthesis of at least a dozen separate scientific disciplines including cosmology physics chemistry microbiology paleobiology paleoclimatology paleontology botany mammology primatology anthropology and the history of science all of these skillfully and woven together into a fabric of great charm this is literally the greatest story ever told it is our story the story of creation and in the hands of this story teller this great adventure has never been more understandable and available to all

The Universe and Me 2009-04-14

brilliant you won't find a clearer more engaging guide to what we know or would like to know about the universe and how it is put together bill bryson celebrated physicist and global bestselling author paul davies tells the story of the universe in thirty cosmological conundrums in the constellation of eridanus there lurks a cosmic mystery it's as if something has taken a huge bite out of the universe leaving a super void what could be the culprit a super massive black hole another bigger universe or an expanding vacuum bubble destined to envelop and annihilate everything in existence scientists now understand the history of our universe better than the history of our own planet but they continue to uncover startling new riddles the hole in the universe being just one in this electrifying book award winning physicist paul davies walks us through the puzzles and paradoxes that have preoccupied cosmologists from ancient greece to the present day laying bare the audacious research that has led us to mind bending solutions davies reveals how we might begin to approach the greatest outstanding enigmas of all

What's Eating the Universe? *2021-09-02*

in the first chapters the author describes how our knowledge of the position of earth in space and time has developed thanks to the work of many generations of astronomers and physicists he discusses how our position in the galaxy was discovered and how in 1929 hubble uncovered the fact that the universe is expanding leading to the picture of the big bang he then explains how

astronomers have found that the laws of physics that were discovered here on earth and in the solar system the laws of mechanics gravity atomic physics electromagnetism etc are valid throughout the universe this is illustrated by the fact that all matter in the universe consists of atoms of the same chemical elements that we know on earth this unity is all the more surprising when one realizes that in the original big bang theory different parts of the universe could never have communicated with each other it then is a mystery how they could have shared the same physical laws this problem was solved by the introduction of the idea of inflation a phase of extremely rapid expansion of the universe during the first fraction of a second following the big bang the author explains how the unity of the universe finds its origin in the big bang prior to inflation the book addresses the many fundamental questions about the universe and its contents from the perspective of the big bang the formation of structure in the universe the questions of the mysterious dark matter and dark energy the possibilities of other universes the multiverse and of the existence of intelligent life elsewhere in the universe

The Amazing Unity of the Universe 2016-07-27

is the universe infinite or is it just really big does nature abhor infinity in startling and beautiful prose janna levin s diary of unsent letters to her mother describes what we know about the shape and extent of the universe about its beginning and its end she grants the uninitiated access to the astounding findings of contemporary theoretical physics and makes tangible the contours of space and time those very real curves along which apples fall and planets orbit levin guides the reader through the observations and thought experiments that have enabled physicists to begin charting the universe she introduces the cosmic archaeology that makes sense of the pattern of hot spots left over from the big bang a pursuit on the verge of discovering the shape of space itself and she explains the topology and the geometry of the universe now coming into focus a strange map of space full of black holes chaotic flows time warps and invisible strings levin advances the controversial idea that this map is edgeless but finite that the universe is huge but not unending a radical revelation that would provide the ultimate twist to the copernican revolution by locating our precise position in the cosmos as she recounts our increasingly rewarding attempt to know the universe levin tells her personal story as a scientist isolated by her growing knowledge this book is her remarkable effort to reach across the distance of that knowledge and share what she knows with family and friends and with us highly personal and utterly original this physicist s diary is a breathtaking contemplation of our deep connection with the universe and our aspirations to comprehend it

How the Universe Got Its Spots *2023-01-10*

did you know that the earth has dark matter i believe that this book will be one of the world s leading resources for knowing the universe in an easy to understand everyday language with sophisticated explanations this book rejects most of the common theories from 1915 to 2015 on the creation of the universe including the big bang theory singularity space time of euclidean and minkowski the theory on black holes and the theory of a flat universe the book gracefully explores the real birth of the universe and its dna it explains the duty of a black hole in the universe and the role that dark matter plays in the universe as well on our earth the book introduces universal relativity theories for the first time and the origin of time space and last but not least it explains a basic usage of the most powerful formula in the world $e=mc^2$

The DNA of the Universe *2015-11-18*

impey combines the vision of a practicing scientist with the voice of a gifted storyteller dava sobel in this vibrant eye opening tour of milestones in the history of our universe chris impey guides us through space and time leading us from the familiar sights of the night sky to the dazzlingly strange aftermath of the big bang what if we could look into space and see not only our place in the universe but also how we came to be here as it happens we can because it takes time for light to travel we see more and more distant regions of the universe as they were in the successively greater past impey uses this concept look back time to take us on an intergalactic tour that is simultaneously out in space and back in time performing a type of cosmic archaeology impey brilliantly describes the astronomical clues that scientists have used to solve fascinating mysteries about the origins and development of our universe the milestones on this journey range from the nearby to the remote we travel from the moon jupiter and the black hole at the heart of our galaxy all the way to the first star the first ray of light and even the strange roiling conditions of the infant universe an intense and volatile environment in which matter was created from pure energy impey gives us breathtaking visual descriptions and also explains what each landmark can reveal about the universe and its history his lucid wonderfully engaging scientific discussions bring us to the brink of modern cosmology and physics illuminating such mind bending concepts as invisible dimensions timelessness and multiple universes a dynamic and unforgettable portrait of the cosmos how it began will reward its readers with a deeper understanding of the universe we inhabit as well as a renewed sense of wonder at its beauty and mystery

How It Began: A Time-Traveler's Guide to the Universe

2012-03-26

regarding his discoveries sir isaac newton famously said if i have seen further it is by standing upon the shoulders of giants the evolving universe and the origin of life describes complete with fascinating biographical details of the thinkers involved a history of the universe as interpreted by the expanding body of knowledge of humankind from subatomic particles to the protein chains that form life and expanding in scale to the entire universe this book covers the science that explains how we came to be this book contains a great breadth of knowledge from astronomy and physics to chemistry and biology the second edition brings this story up to date chronicling scientific achievements in recent years in such fields of research as cosmology the large scale architecture of the universe black holes exoplanets and the search for extraterrestrial life with over 250 figures this is a non technical easy to read textbook at an introductory college level that is ideal for anyone interested in science as well as its history

The Evolving Universe and the Origin of Life 2019-09-04

john brockman brings together the world s best known physicists and science writers including brian greene walter isaacson nobel prize winner frank wilczek benoit mandelbrot and martin rees to explain the universe in all wondrous splendor in the universe today s most influential science writers explain the science behind our evolving understanding of the universe and everything in it including the cutting edge research and discoveries that are shaping our knowledge lee smolin reveals how math and cosmology are helping us create a theory of the whole universe benoit mandelbrot looks back on a career devoted to fractal geometry neil turok analyzes the fundamental laws of nature what came before the big bang and the possibility of a unified theory seth lloyd investigates the impact of computational revolutions and the informational revolution lawrence krauss provides fresh insight into gravity dark matter and the energy of empty space brian greene and walter isaacson illuminate the genius who revolutionized modern science albert einstein and much more explore the universe with some of today s greatest minds what it is how it came into being and what may happen next

The Universe 2014-07-08

despite a remarkable increase in our knowledge how much is really known about the history of the galaxies and the structure of the universe in general is space limited or is it infinite how old is the universe and how long may it be expected to endure these and other questions are

discussed by the author in the light of the latest findings of astronomy and astrophysics

The Universe and the Atom *1968*

in this landmark book one of the twentieth century's greatest astronomers presents scientific evidence that our vast universe may be only a grain of sand on the infinite cosmic shore it is now widely accepted that our universe exploded around 15 billion years ago from an unimaginably energetic initial event the big bang as the primordial material expanded and cooled it evolved into the exquisite patterns of stars and galaxies we now observe the mix of energy and radiation that characterizes our universe was imprinted in that initial instant as were the binding forces of nuclear physics and gravity that controlled our universe's evolution the experimental triumphs and theoretical insights of recent years from the detection of neutrinos from exploding stars to the search for extraterrestrial life offer the most dramatic enlargement in our concept of the universe since astronomers first realized the sun's true place among the stars in this illuminating work sir martin rees britain's astronomer royal and one of the most creative and original of contemporary scientists draws these advances together with up to the minute research on black holes dark matter and nucleosynthesis of the elements he also sheds light on some of the personalities behind the science offering first hand impressions of subrahmanyan chandrasekhar stephen hawking john archibald wheeler and fred hoyle among others with stunning clarity professor rees argues that a family even an infinity of universes may have been created each by its own big bang and each acquiring a distinctive imprint and its own laws of physics these baby universes will either live out their immense cosmic cycle or die because those laws do not allow them to achieve longevity our home universe then is just one element in a cosmic archipelago where impassable barriers prohibit communication between the islands but as rees demonstrates our universe is an exceptional member of this infinite ensemble for it is still near the beginning of a fascinating evolutionary process that will end either in the heat death of external expansion or in what scientists call a big crunch most remarkable of all our universe contains creatures able to observe it the multi universe revolution in cosmological thought limned by rees casts a piercing light on man's place in the cosmos and argues that the conditions permitting the evolution of life stand on the razor's edge between a dead universe and one filled with living beings

The Structure of the Universe *1997*

a riveting tour of the cosmos from one of the brightest minds in astrophysics the washington post a revolutionary new account of our universe's creation and a breathtaking exploration of the landscape from which we sprang from one of the world's most celebrated cosmologists what

came before the big bang and what exists outside of the universe it created until recently scientists could only guess at what lay past the edge of space time however as pioneering theoretical physicist laura mersini houghton explains new scientific tools are now giving us the ability to peer beyond the limits of our universe and to test our theories about what is there and what we are finding is upending everything we thought we knew about the cosmos and our place in it mersini houghton is no stranger to boundaries or to pushing through them as a child growing up in communist albania she discovered a universe beyond her walled off world through the study of math and science and through music as a female cosmologist in a male dominated field she transcended the limits that society and her profession tried to place on her and as a trailblazing researcher she helped to revolutionize the study of our universe by revealing that far from living in a cosmic albania with a world that ends at its borders we are part of a larger family of universes a multiverse that holds wonders we are only beginning to unlock mersini houghton s groundbreaking research suggests that we sit in a quantum landscape whose peaks and valleys hide a multitude of other universes and even hold the secret to the origins of existence itself recent evidence has revealed the signatures of such sibling universes in our own night sky confirming mersini houghton s theoretical work and offering humbling evidence that our universe is just one member of an unending cosmic family the incredible scientific saga of one woman s mind expanding journey through the multiverse before the big bang will reshape our understanding of humanity s place in the unfathomable vastness of the cosmos

Before The Beginning *2022-07-19*

this groundbreaking work of science and philosophy offers an innovative and highly original perspective on the nature of the universe and the stars drawing on the latest discoveries in astronomy mathematics and physics and informed by a deep understanding of the natural world this work is as relevant today as it was when first published in the mid 1800s this work has been selected by scholars as being culturally important and is part of the knowledge base of civilization as we know it this work is in the public domain in the united states of america and possibly other nations within the united states you may freely copy and distribute this work as no entity individual or corporate has a copyright on the body of the work scholars believe and we concur that this work is important enough to be preserved reproduced and made generally available to the public we appreciate your support of the preservation process and thank you for being an important part of keeping this knowledge alive and relevant

Before the Big Bang *2023-07-18*

excerpt from the universe and the stars being an original theory on the visible creation founded on the laws of nature yet it is probably owing to this very merit that our worthy author has met with total neglect at the hands of his blinded countrymen we have not yet found him quoted anywhere and a philosopher and astronomer equal to plato copernic newton and herschel was to this day nearly unknown until we found his work and determined at once to restore him to life and fame as an earnest of what we may yet do in the great undertaking to restore spread and increase useful knowledge can we begin better than by unfolding at once the hidden secrets of the everlasting creation of the heavens before we stoop to our paltry sphere and the human ants crawling on it for a few years about the publisher forgotten books publishes hundreds of thousands of rare and classic books find more at forgottenbooks.com this book is a reproduction of an important historical work forgotten books uses state of the art technology to digitally reconstruct the work preserving the original format whilst repairing imperfections present in the aged copy in rare cases an imperfection in the original such as a blemish or missing page may be replicated in our edition we do however repair the vast majority of imperfections successfully any imperfections that remain are intentionally left to preserve the state of such historical works

The Universe And The Stars *2017-11-28*

stephen hawking's phenomenal multimillion copy bestseller a brief history of time introduced the ideas of this brilliant theoretical physicist to readers all over the world now in a major publishing event hawking returns with a lavishly illustrated sequel that unravels the mysteries of the major breakthroughs that have occurred in the years since the release of his acclaimed first book the universe in a nutshell quantum mechanics m theory general relativity 11 dimensional supergravity 10 dimensional membranes superstrings p branes black holes one of the most influential thinkers of our time stephen hawking is an intellectual icon known not only for the adventurousness of his ideas but for the clarity and wit with which he expresses them in this new book hawking takes us to the cutting edge of theoretical physics where truth is often stranger than fiction to explain in laymen's terms the principles that control our universe like many in the community of theoretical physicists professor hawking is seeking to uncover the grail of science the elusive theory of everything that lies at the heart of the cosmos in his accessible and often playful style he guides us on his search to uncover the secrets of the universe from supergravity to supersymmetry from quantum theory to m theory from holography to duality he takes us to the wild frontiers of science where superstring theory and p branes may hold the final clue to the puzzle and he lets us behind the scenes of one of his most exciting intellectual adventures as he seeks to combine

einstein s general theory of relativity and richard feynman s idea of multiple histories into one complete unified theory that will describe everything that happens in the universe with characteristic exuberance professor hawking invites us to be fellow travelers on this extraordinary voyage through space time copious four color illustrations help clarify this journey into a surreal wonderland where particles sheets and strings move in eleven dimensions where black holes evaporate and disappear taking their secret with them and where the original cosmic seed from which our own universe sprang was a tiny nut the universe in a nutshell is essential reading for all of us who want to understand the universe in which we live like its companion volume a brief history of time it conveys the excitement felt within the scientific community as the secrets of the cosmos reveal themselves

The Universe and the Stars *2001-11-06*

how was the universe created is the sun a star is there life beyond planet earth discover the answers to all your galactic questions in this fascinating new series

The Universe in a Nutshell *1987*

a nobel prize winning physicist explains what happened at the very beginning of the universe and how we know in this popular science classic our universe has been growing for nearly 14 billion years but almost everything about it from the elements that forged stars planets and lifeforms to the fundamental forces of physics can be traced back to what happened in just the first three minutes of its existence in this book nobel laureate steven weinberg describes in wonderful detail what happened in these first three minutes it is an exhilarating journey that begins with the planck epoch the earliest period of time in the history of the universe and goes through einstein s theory of relativity the hubble red shift and the detection of the cosmic microwave background these incredible discoveries all form the foundation for what we now understand as the standard model of the origin of the universe the first three minutes examines not only what this model looks like but also tells the exciting story of the bold thinkers who put it together clearly and accessibly written the first three minutes is a modern day classic an unsurpassed explanation of where it is that everything really comes from

The Universe and Life *2015-03-05*

understanding the universe the physics of the cosmos from quasars to quarks explores how all areas of physics from the very smallest scales to the very largest come together to form our current understanding of the universe it takes readers on a fascinating journey from the big bang

and how the universe has evolved to how it appears now and the possibilities for how it will continue to evolve in the future it also explores the latest exciting developments in the area and how they impact our understanding of the universe such as quantum chromodynamics black holes dark energy and gravitational waves equally importantly it explains how we have come to know all of this about the universe and details the limitations of our current understanding this book is accessible to all introductory undergraduate students interested in the physical sciences it prioritises a non mathematical approach so it can be understood by all students with only two algebraic equations in the book and any numerical calculations shown are limited to simple arithmetic key features combines current understanding of quantum physics and cosmology and includes the latest exciting developments from the field provides an accessible introduction to the topic focusing on a non mathematical presentation presents a comprehensive narrative on the subject and a coherent story

The Universe 2022-04-26

the universe that science reveals to us can seem far outside the comfort zone of the human mind subjects near and far open up dizzying vistas from the infinitesimal to the colossal humanity the unlikely product of uncountable coincidences on unimaginable scales inhabits a tumultuous universe that extends from our immediate environs to the most distant galaxies and beyond but when the mind balks at the vertiginous complexity of the universe science unveils the elegance amid the chaos in this book thomas r scott ventures into the known and the unknown to explain our universe and the laws that govern it the universe as it really is begins with physics and the building blocks of the universe time gravity light and elementary particles and chemistry s ability to explain the interactions among them scott with the assistance of james lawrence powell next tours the earth and atmospheric sciences to explain the forces that shape our planet and then takes off for the stars to describe our place in the cosmos he provides vivid introductions to our collective scientific inheritance narrating discoveries such as the shape of the atom and the nature of the nucleus or how we use gps to measure time and what that has to do with relativity a clear demonstration of the power of scientific reasoning to bring the incomprehensible within our grasp the universe as it really is gives an engrossing account of just how much we do understand about the world around us

The First Three Minutes 2021-05-13

explains the big bang theory of the formation of the universe and discusses its possible continued growth

Understanding the Universe 2018-06-26

in this groundbreaking work of science marion erwin explores the mysteries of the universe and the atom from the big bang to the structure of matter erwin covers it all with clarity and insight the book is filled with fascinating facts diagrams and illustrations that help readers understand complex ideas this is a must read for anyone interested in physics astronomy or the nature of the universe this work has been selected by scholars as being culturally important and is part of the knowledge base of civilization as we know it this work is in the public domain in the united states of america and possibly other nations within the united states you may freely copy and distribute this work as no entity individual or corporate has a copyright on the body of the work scholars believe and we concur that this work is important enough to be preserved reproduced and made generally available to the public we appreciate your support of the preservation process and thank you for being an important part of keeping this knowledge alive and relevant

The Universe as It Really Is 1985-01-01

a simple introduction to the universe and earth s relationship to it

The Universe 2023-07-18

in 2000 martin bojowald then a twenty seven year old post doc at pennsylvania state university used a relatively new theory called loop quantum gravity a cunning combination of einstein s theory of gravity with quantum mechanics to create a simple model of the universe loop quantum cosmology was born and with it a theory that managed to do something even einstein s general theory of relativity had failed to do illuminate the very birth of the universe ever since loop quantum cosmology or lqc has been tantalizing physicists with the idea that our universe could conceivably have emerged from the collapse of a previous one now the theory is poised to formulate hypotheses we can actually test if they are verified the big bang will give way to the big bounce instead of a universe that emerged from a point of infinite density we will have one that recycles possibly through an eternal series of expansions and contractions with no beginning and no end bojowald s major realization was that unlike general relativity the physics of lqc do not break down at the big bang the greatest mystery surrounding the origin of the universe is what cosmologists call the big bang singularity the point at the beginning of the universe prior to the existence of space and time when gravity along with the temperature and density of the universe becomes infinite the equations of general relativity can t cope with such infinities and as a result big bang theory has never been able to give any explanation for the initial condition of our

universe succeeding only in describing and explaining the evolution of the universe from that instant onward bojawald's theory takes us right up to the first moment of the universe and then back even before the big bang itself

The Universe and the Atom 1991

this book is a real journey into many modern physics including quantum physics and the chemistry of the evolution of the universe mathematically the book shows that science can not prove the imbalanced force and momentum between the sun and its orbiting planets the analysis also demonstrates that the earth and the solar planets are not conjoined to the sun in their orbit therefore the analysis in this book reinforces theology over science the big bang theory is an interesting and valuable scientific theory and it is one of the best theories that materialists have been using to justify that god has nothing to do with the creation of the universe the big bang theory cannot explain the origin of the universe just by saying the universe was created from nothingness scientists can not absorb that galaxies and our planet were made from nothing this book shows the scientific and philosophical weaknesses of the big bang theory by pointing out the contradiction of many cores of the theory written on a level that scientifically uneducated people can comprehend it fairly proves the intellectual superiority of god in the creation of the universe as given in the holy books

The Universe 2010-11-09

the bestselling author of the scientists presents a lively and accessible look at how astronomers determined the age of our universe publishers weekly starred review the twentieth century gave us two great theories of physics the general theory of relativity describes the behavior of very large things and quantum theory the behavior of very small things in this landmark book john gribbin one of the best known science writers of the past thirty years presents his own version of the holy grail of physics the search that has been going on for decades to find a unified theory of everything that combines these ideas into one mathematical package a single equation that could be printed on a t shirt containing the answer to life the universe and everything with his inimitable mixture of science history and biography gribbin shows how despite skepticism among many physicists these two great theories are very compatible and point to a deep truth about the nature of our existence the answer lies intriguingly with the age of the universe 13.8 billion years gribbin is a confident engaging guide a lovingly rendered history the wall street journal an exciting chronicle of a monumental scientific accomplishment by a scientist who participated in the measuring of the age of the universe kirkus reviews a book that hits readers with unrelenting

detail and with a story as grand as this one that is exactly the way a good science book should have it nothing will be lost here and everything a clear understanding will be gained astronomy a welcome and relatively quick read for cosmology buffs students and amateur astronomers
booklist

Once Before Time *2011-03*

how a great enigma of astronomy was solved astronomers have determined that our universe is 13.7 billion years old how exactly did they come to this precise conclusion how old is the universe tells the incredible story of how astronomers solved one of the most compelling mysteries in science and along the way introduces readers to fundamental concepts and cutting edge advances in modern astronomy the age of our universe poses a deceptively simple question and its answer carries profound implications for science religion and philosophy david weintraub traces the centuries old quest by astronomers to fathom the secrets of the nighttime sky describing the achievements of the visionaries whose discoveries collectively unveiled a fundamental mystery he shows how many independent lines of inquiry and much painstakingly gathered evidence when fitted together like pieces in a cosmic puzzle led to the long sought answer astronomers don't believe the universe is 13.7 billion years old they know it you will too after reading this book by focusing on one of the most crucial questions about the universe and challenging readers to understand the answer weintraub familiarizes readers with the ideas and phenomena at the heart of modern astronomy including red giants and white dwarfs cepheid variable stars and supernovae clusters of galaxies gravitational lensing dark matter dark energy and the accelerating universe and much more offering a unique historical approach to astronomy how old is the universe sheds light on the inner workings of scientific inquiry and reveals how astronomers grapple with deep questions about the physical nature of our universe

The Universe and Its Creation *2016-03-08*

we have entered a new age of exploration and discovery enabling us to probe ever more distant reaches of space and greatly advance our knowledge of the universe today telescopes peer not only into outer space but also into the deep past paul murdin takes us on an original and breathtaking journey across the lifetime of the universe from the first milliseconds of the big bang right up to our present moment and even beyond murdin draws on the latest discoveries in astronomy to describe the most important characters and events in the life of our universe the most powerful explosions the most curious planets and the most spectacular celestial bodies he charts our developing understanding of the cosmos showing how thinkers have deduced

the source of order in our universe and what cosmic future awaits us he shows how the expected fate of our ever accelerating and expanding universe heat death or ultimate entropy can actually be reinterpreted as the conditions that will begin a new big bang he details the basic principles beneath our universe explaining various standard and non standard cosmological models the fundamental role of the cosmic microwave background the paramount significance of black holes and other basic building blocks of contemporary physics intellectually thrilling and widely accessible cycles of time is a welcome new contribution to our understanding of the universe from one of our greatest mathematicians and thinkers

□□□□□□□□ 2023-11-07

jo dunkley combines her expertise as an astrophysicist with her talents as a writer and teacher to present an elegant introduction to the structure history and enduring mysteries of the universe among the cutting edge phenomena discussed are the accelerating expansion of the universe and the possibility that our universe is only one of many

100 Stars That Explain the Universe 2012-05-01

Cycles of Time 2019-04-08

Our Universe

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