



Dr. Terry Mortenson

# Big Bang: Exploding the Myth

Taught by Dr. Terry Mortenson, [AnswersinGenesis.org](http://AnswersinGenesis.org)  
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# Answers

IN GENESIS®



Creation Museum, Cincinnati, OH



Creation Museum, Petersburg, KY

# Ark Encounter, Williamstown, KY



# Ark Encounter, Williamstown, KY





Dr. Terry Mortenson

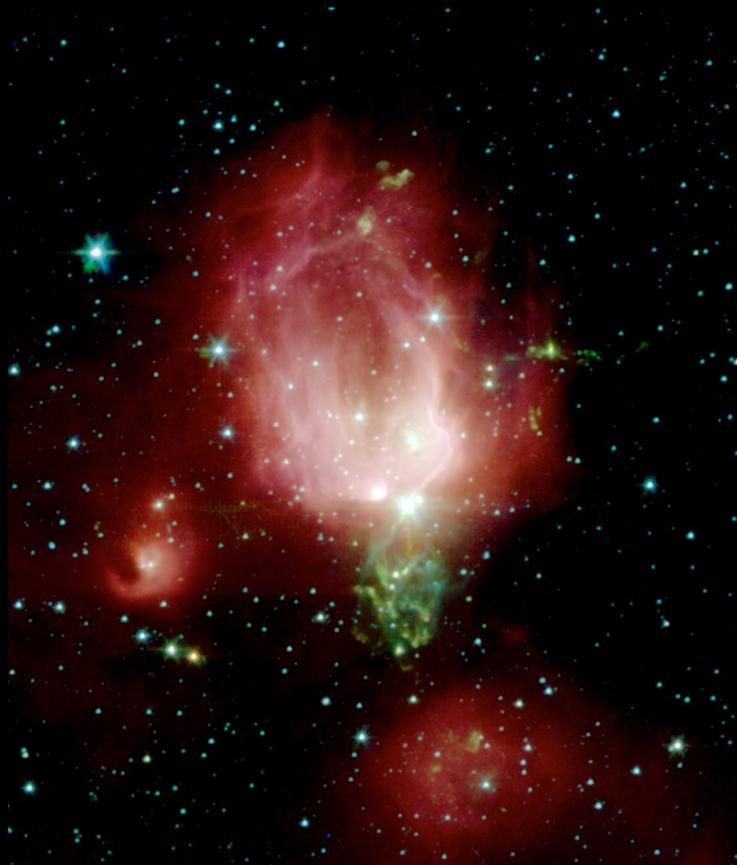
# Big Bang: Exploding the Myth



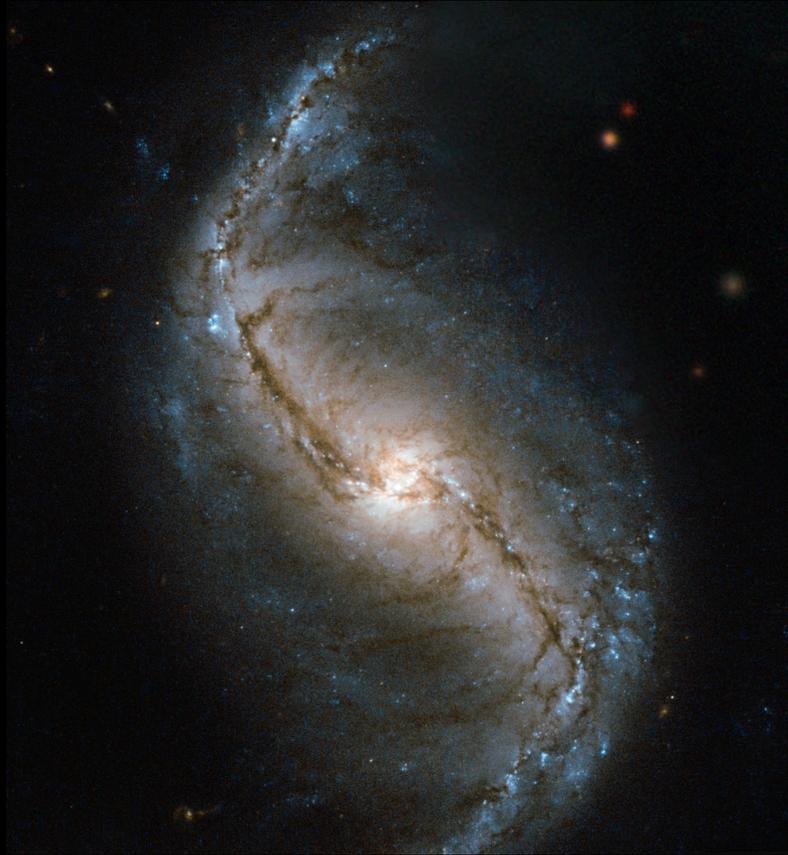
# Veil Nebula



“Rosebud” nebulosity NGC 7129



Spiral galaxy NGC 5194



Barred spiral galaxy NGC 986

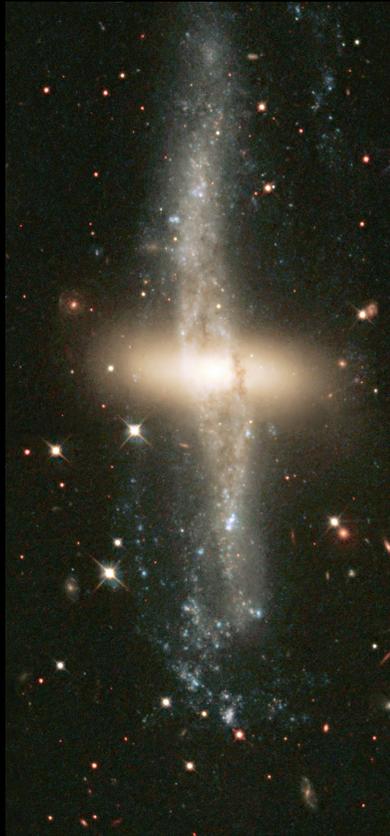
star cluster & nebula



Butterfly Nebula



The Helix Nebula



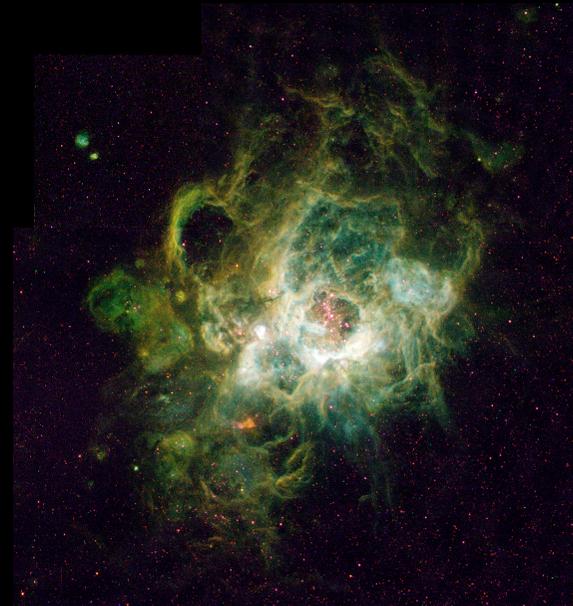
“Polar-ring” Galaxy  
NGC 4650A



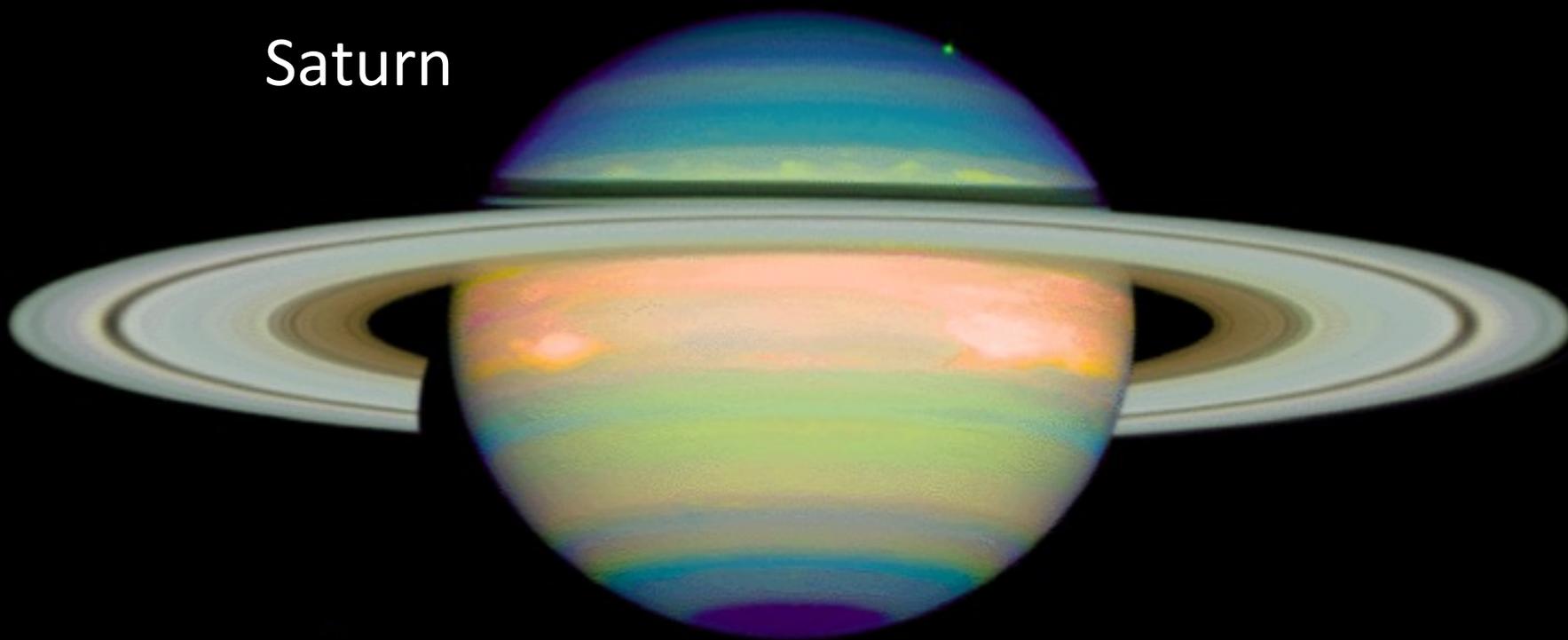
Whirlpool Galaxy  
NGC 5194

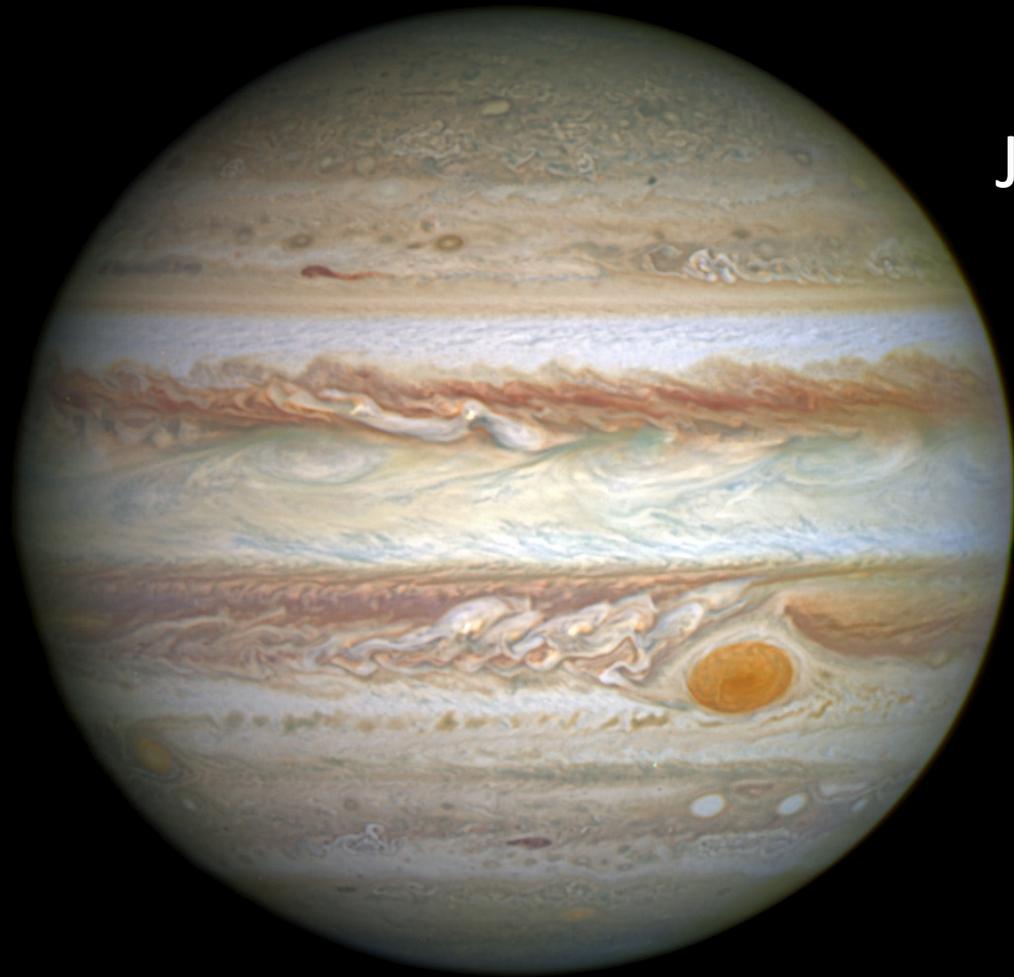
nebula called NGC 604

Nebula NGC 604



Saturn

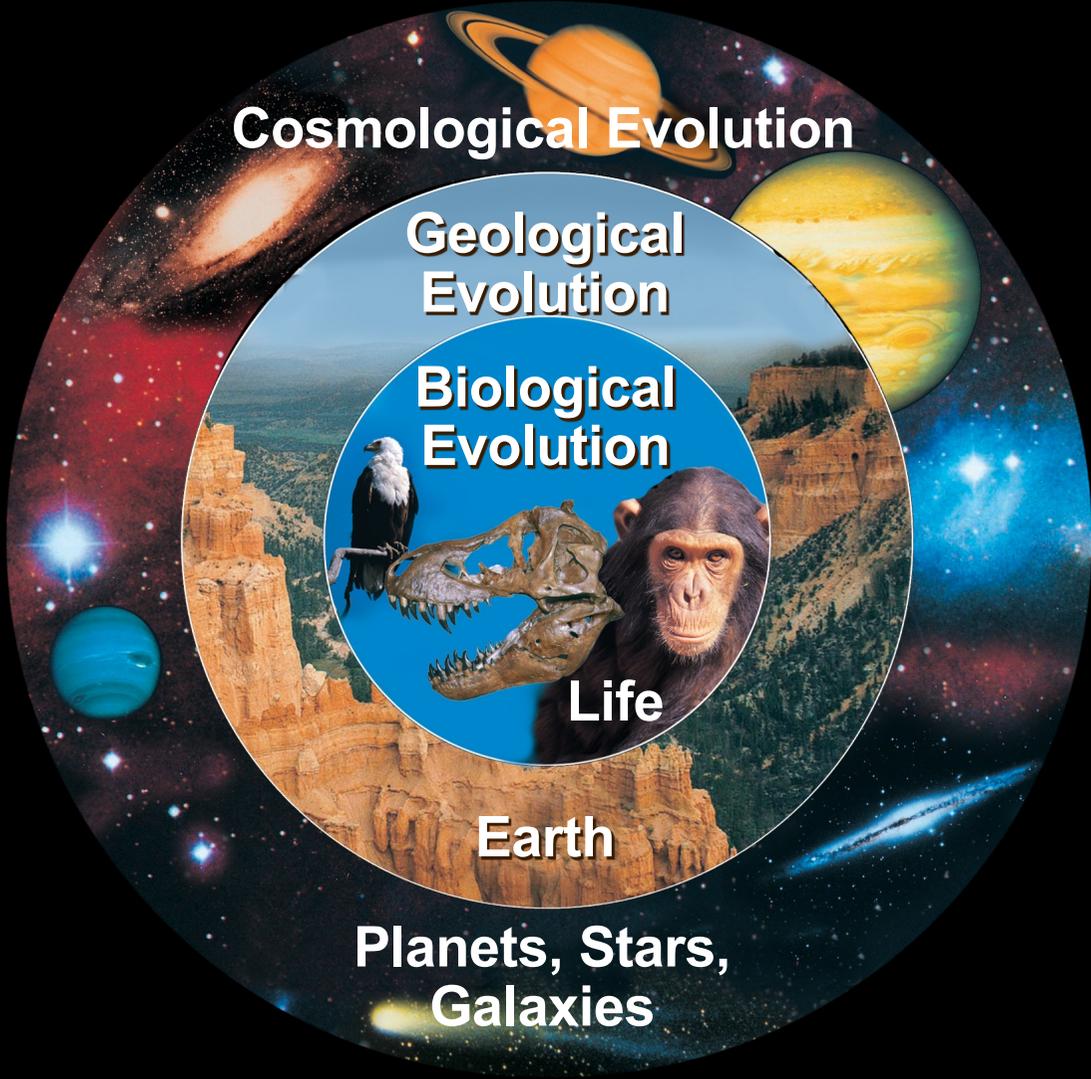




Jupiter

Earth





**Cosmological Evolution**

**Geological Evolution**

**Biological Evolution**

**Life**

**Earth**

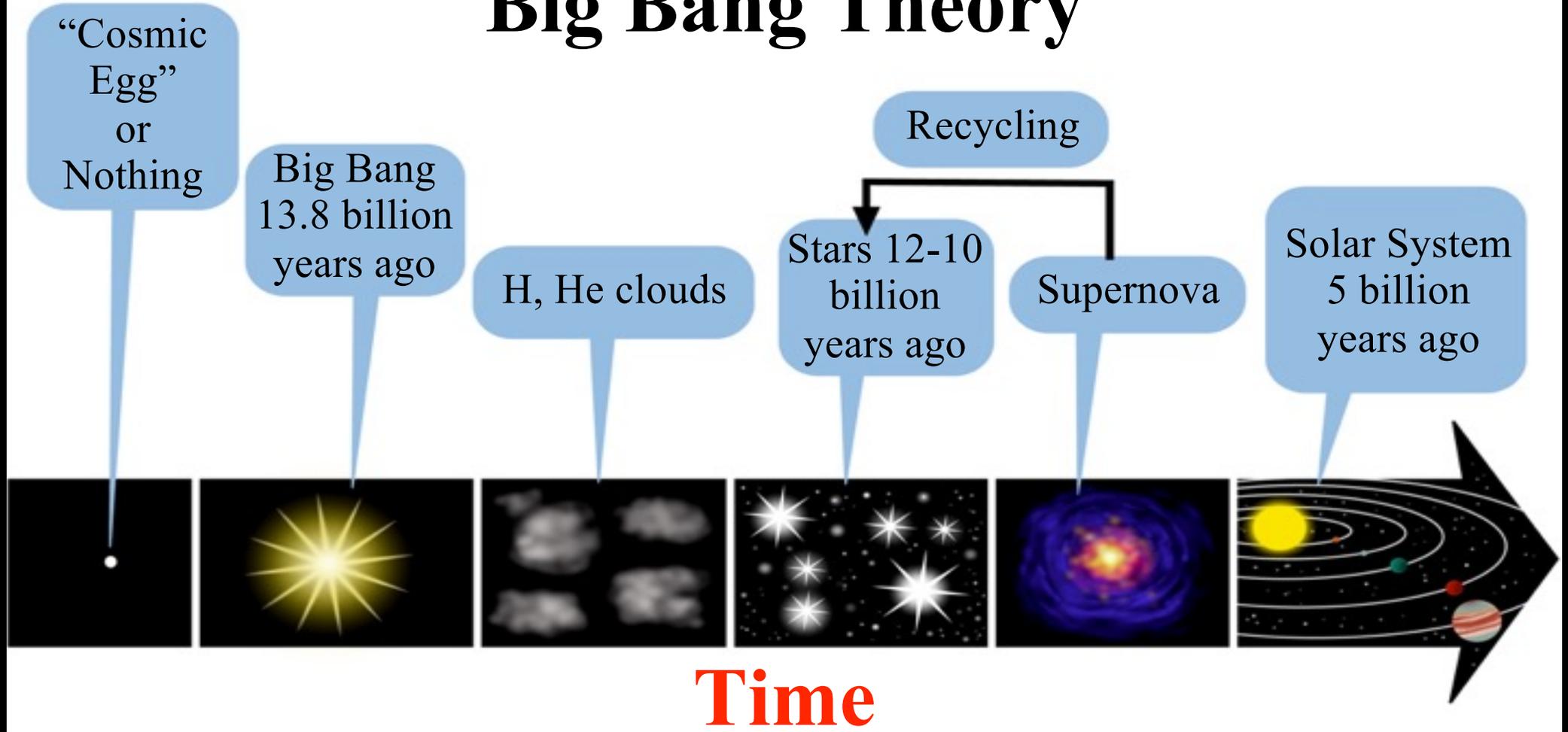
**Planets, Stars, Galaxies**

# Naturalistic Worldview

1. Nature or matter is all that exists.
2. Everything can, and indeed, must be explained by **time** plus **chance** plus **the laws of nature** working on matter.

## Assumptions of Atheism

# Big Bang Theory



# Biblical Worldview

1. The eternal, good, all-knowing, all-powerful, holy God exists and He created everything else.
2. The Bible, God's completely truthful eyewitness testimony, explains the key events in history so that we can correctly interpret the evidence from the origin and history of the creation.

..... Operation Science

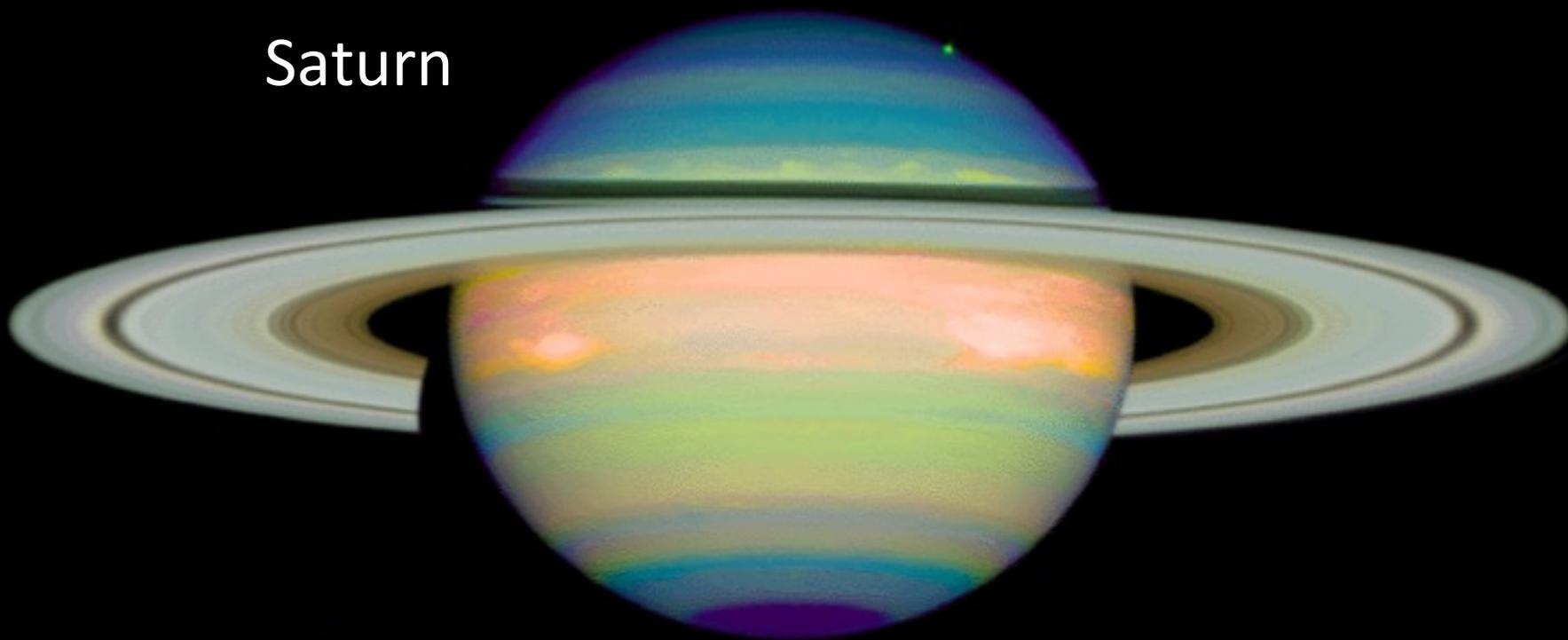
**VS**

..... Origin Science

# OBSERVATIONAL SCIENCE

Biology  
Chemistry  
Physics  
Engineering  
Medical Science

Saturn



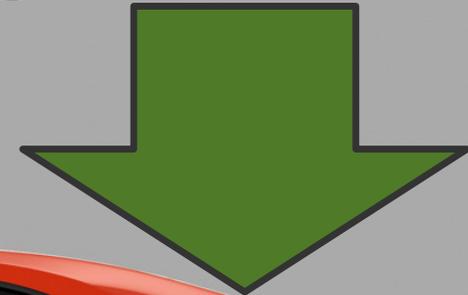
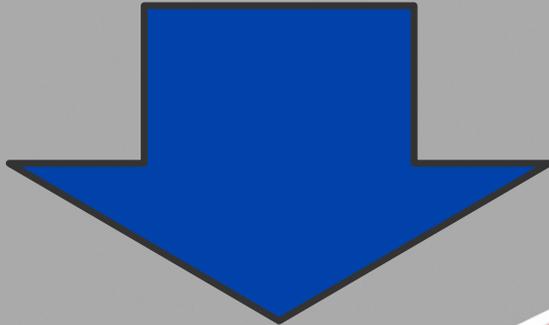
# HISTORIGAN SCIENCE

Historical Geology  
Paleontology  
Archeaology  
Cosmology  
Forensic Science



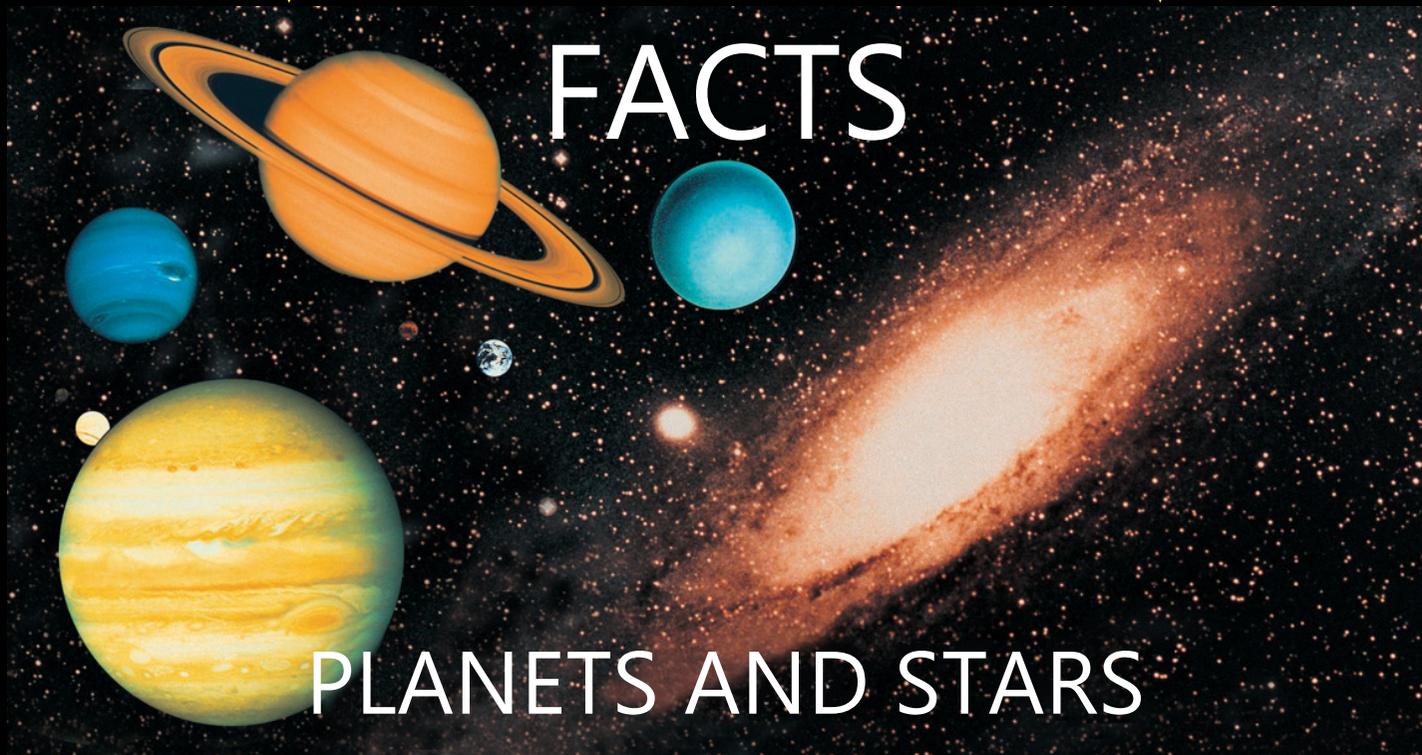
**Car Mechanic  
(Operation Scientist)**

**Car Manufacturer  
(Origin Scientist)**



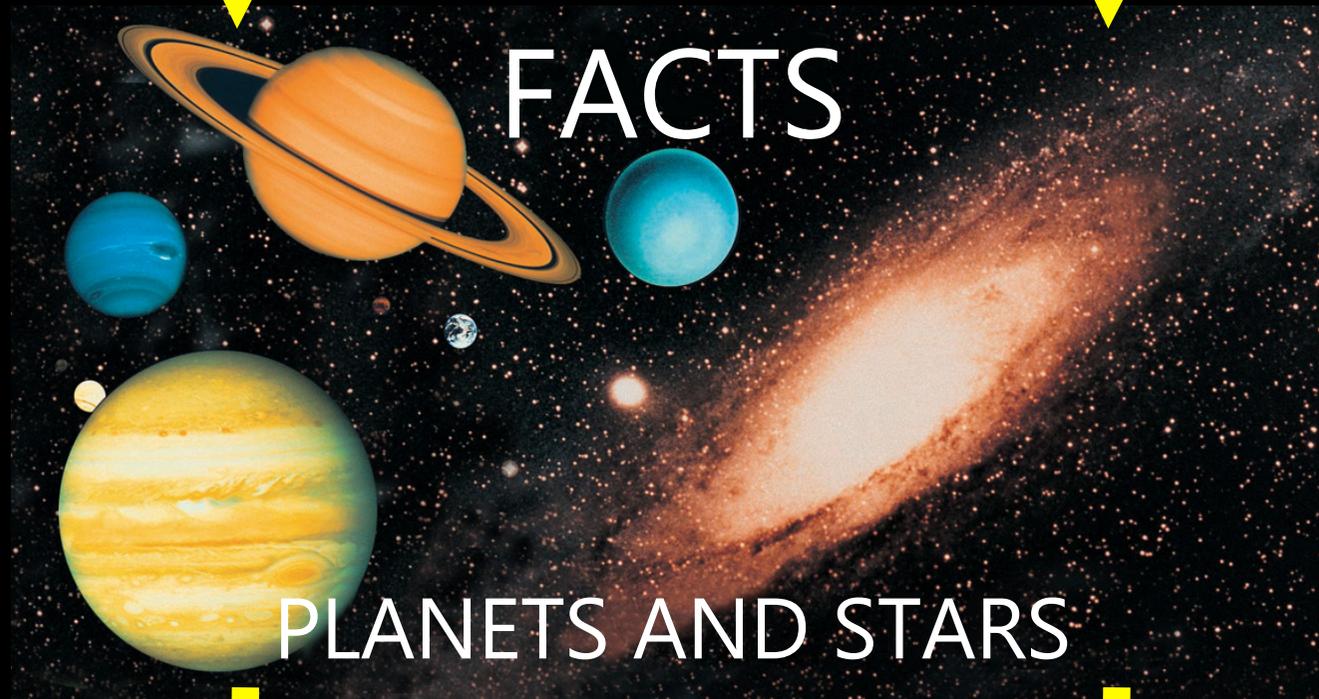
OPERATION science

ORIGIN science



**NATURALISTIC ASSUMPTIONS**

**BIBLICAL ASSUMPTIONS**



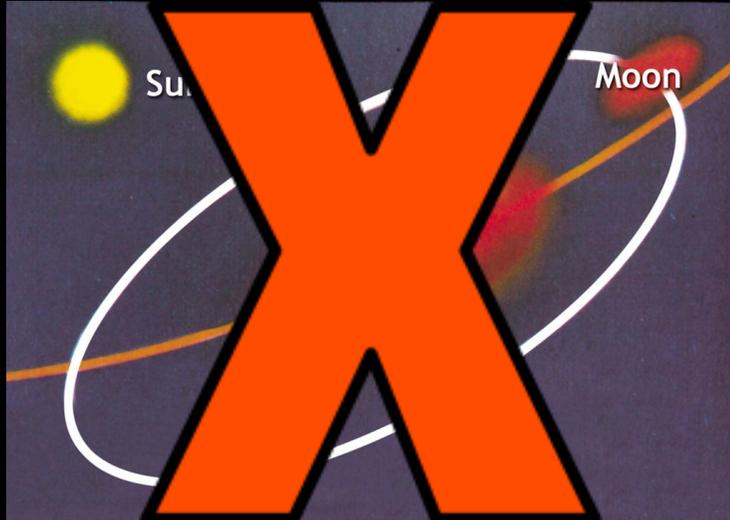
**BIG BANG, BILLIONS OF YEARS**

**DESIGNED, YOUNG UNIVERSE**

# THE ORIGIN OF THE MOON?



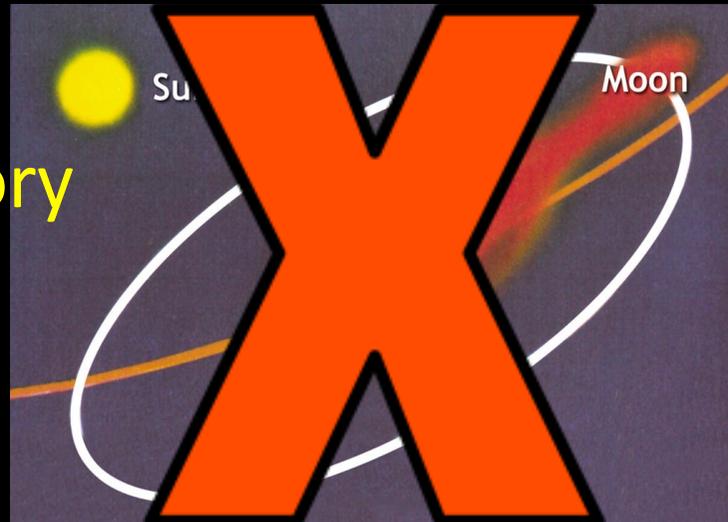
Sister Theory



Wife Theory



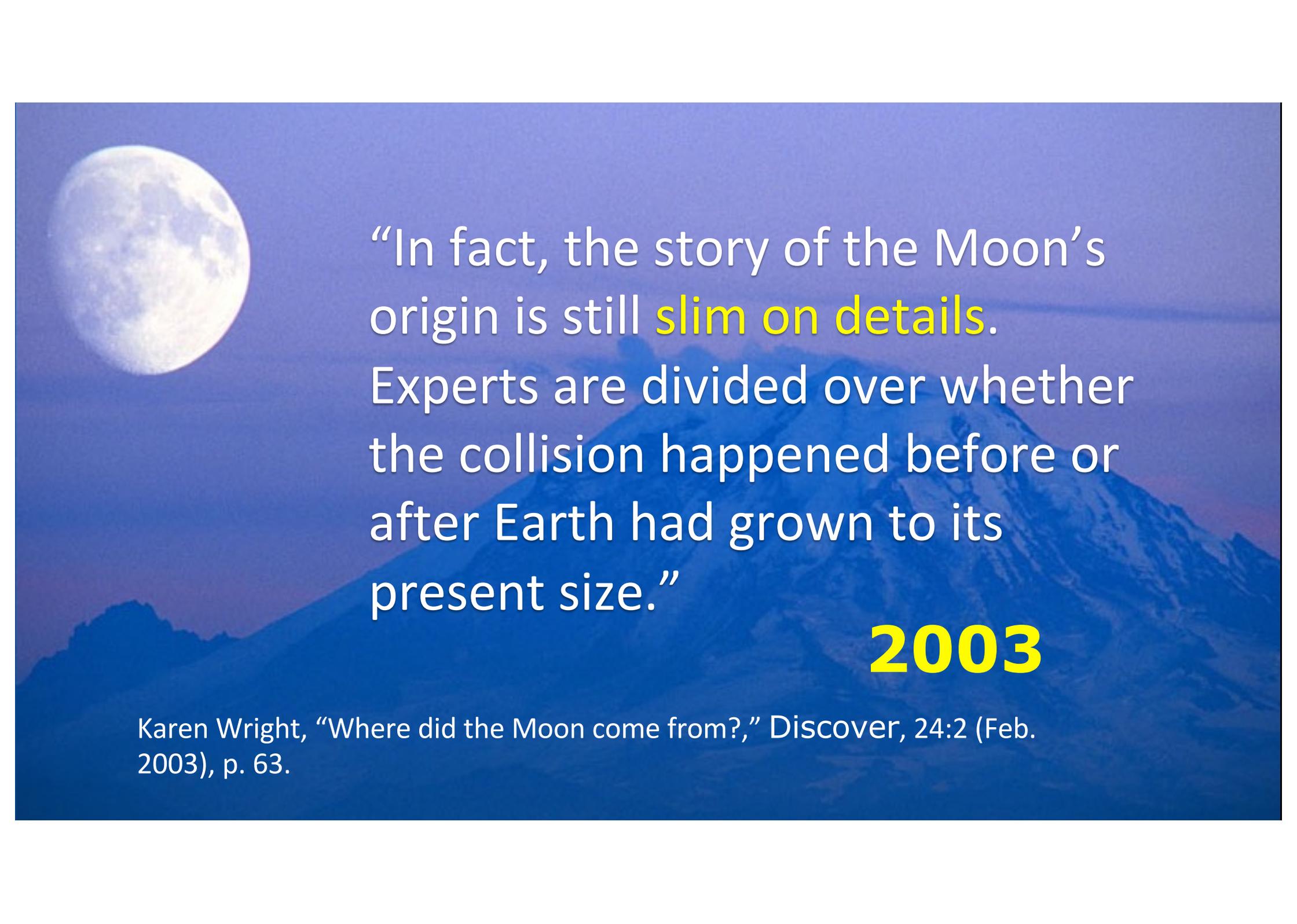
Daughter Theory





## Giant Impact Theory



A full moon is visible in the upper left corner of the image, set against a dark blue, twilight sky. Below the sky, the silhouettes of a mountain range are visible, with the peaks and ridges appearing in a lighter shade of blue. The overall scene is a serene, natural landscape.

“In fact, the story of the Moon’s origin is still **slim on details**.

Experts are divided over whether the collision happened before or after Earth had grown to its present size.”

**2003**

Karen Wright, “Where did the Moon come from?” *Discover*, 24:2 (Feb. 2003), p. 63.



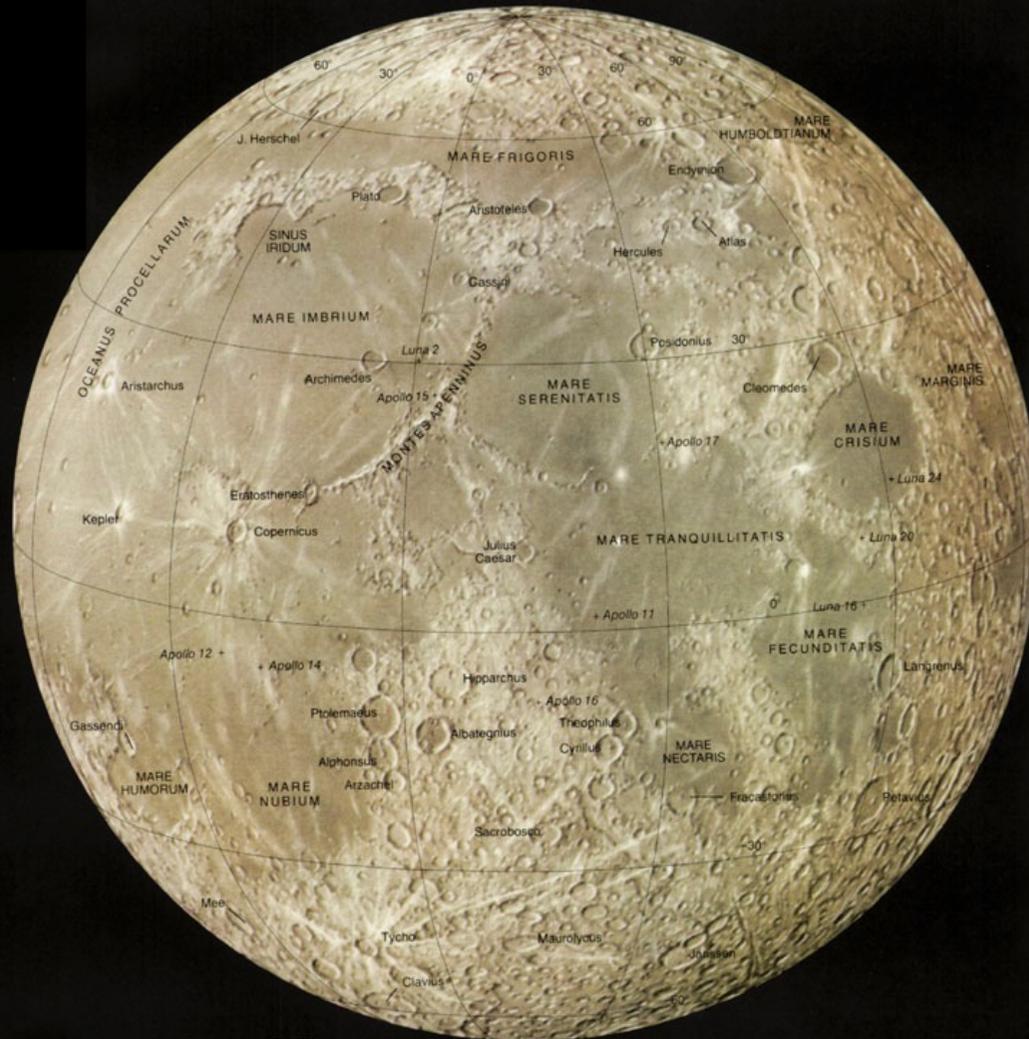
“It’s beguiled watchers since before records were kept, and today still, it fills poets with pensive musings, and scientists with enchanting questions. **Where did the moon come from, and how did it get there? ...**

Hopefully new research will one day provide us with a definitive answer. Until that day though, it seems **we will all have to just keep on musing.**”

**2012**

Bob Yirka, “**New research provokes more questions about the origin of the moon,**” <http://phys.org>, 26 March 2012.

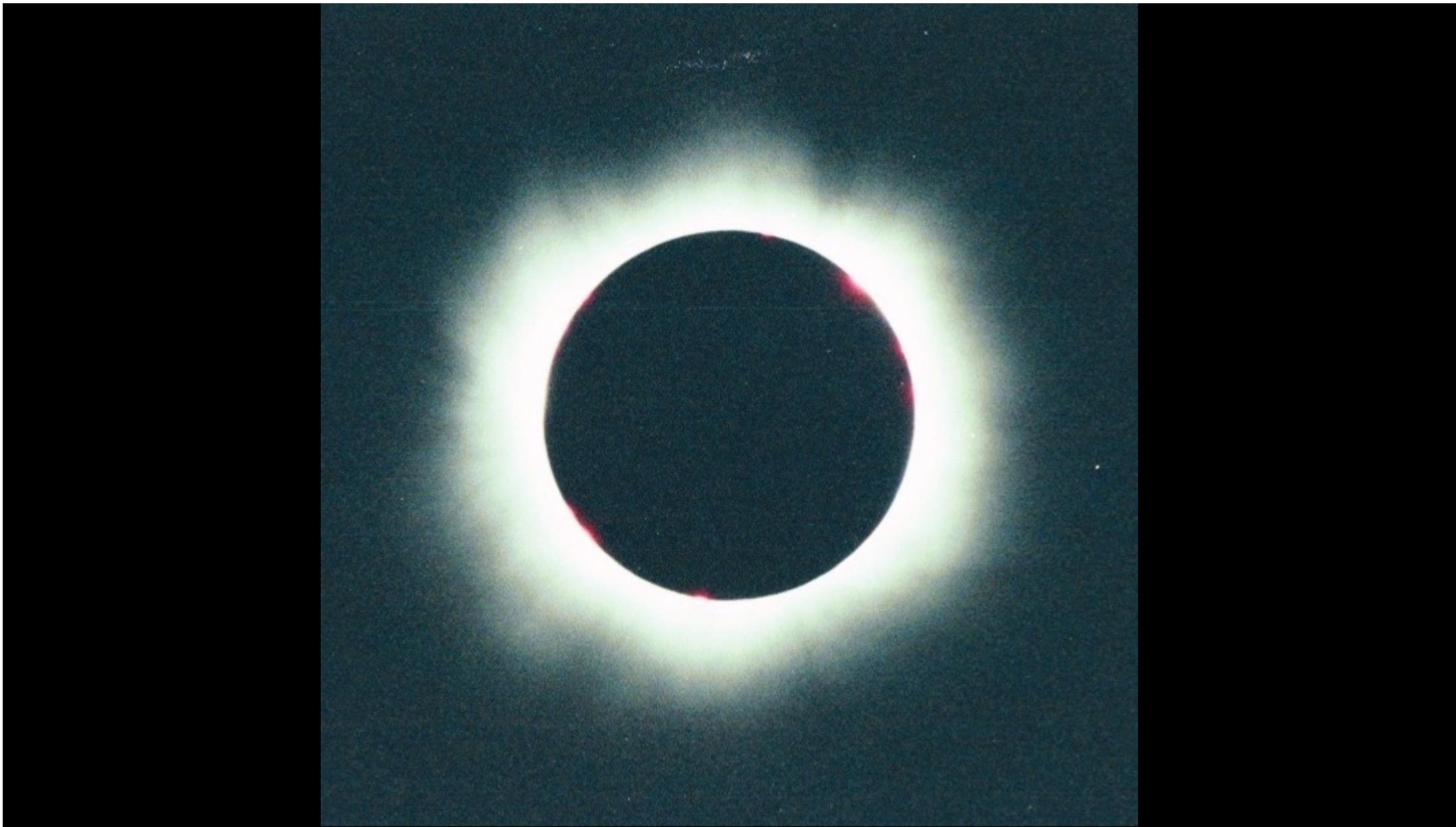
# The near side of the **MOON**

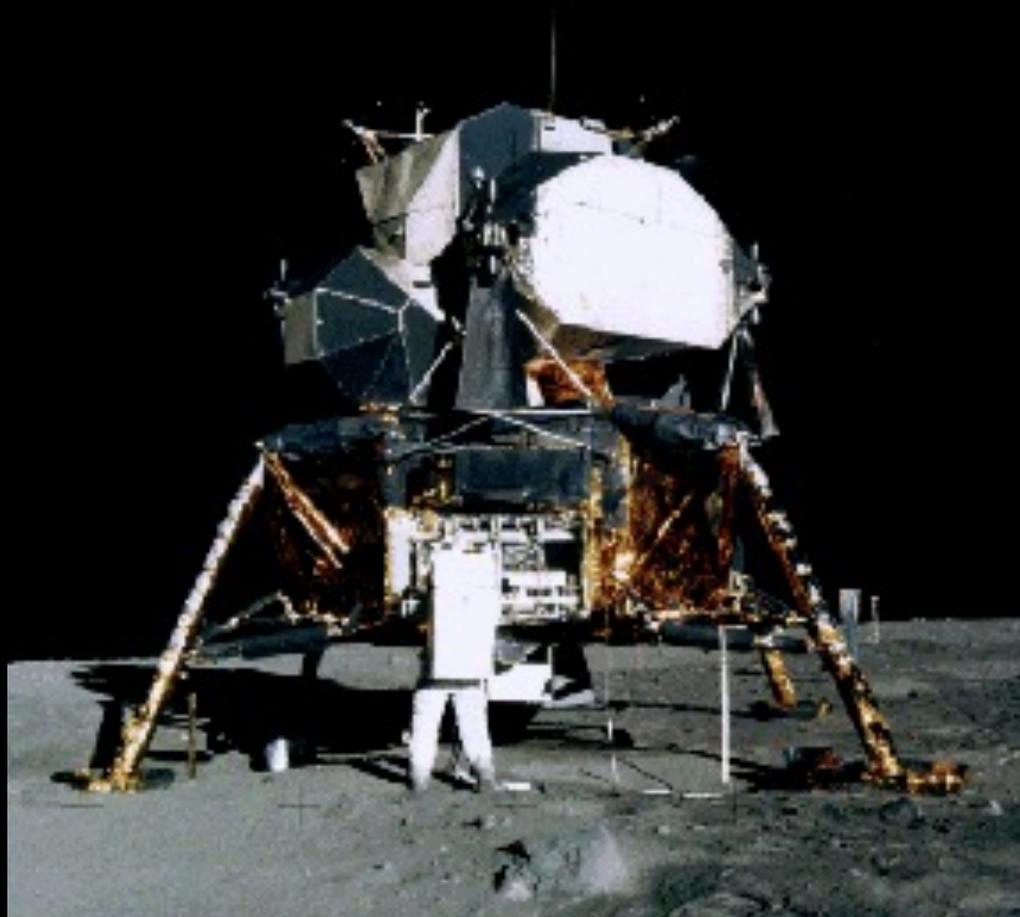


*National Geographic Picture Atlas of Our Universe*

# Solar Eclipse









# The Origin of the Solar System?

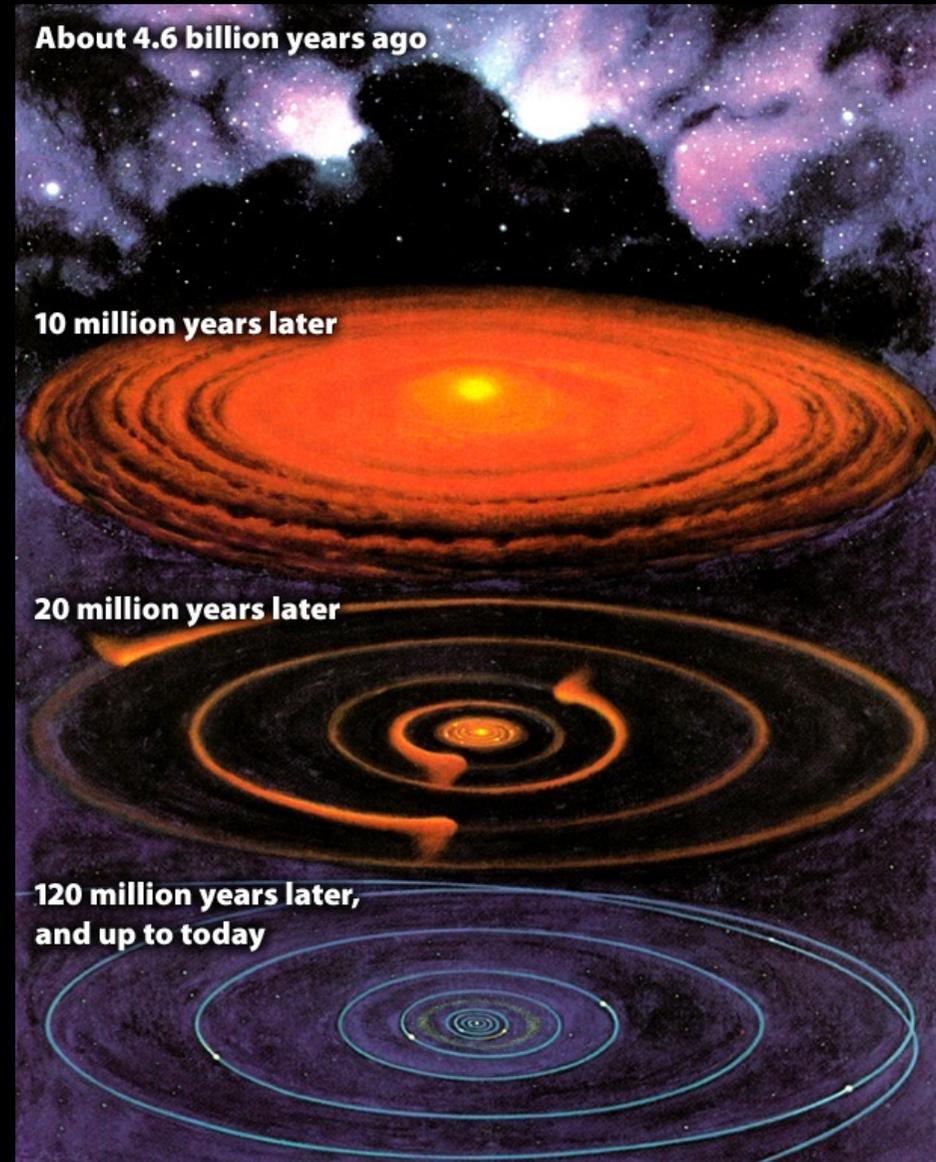


4.6 billion years ago

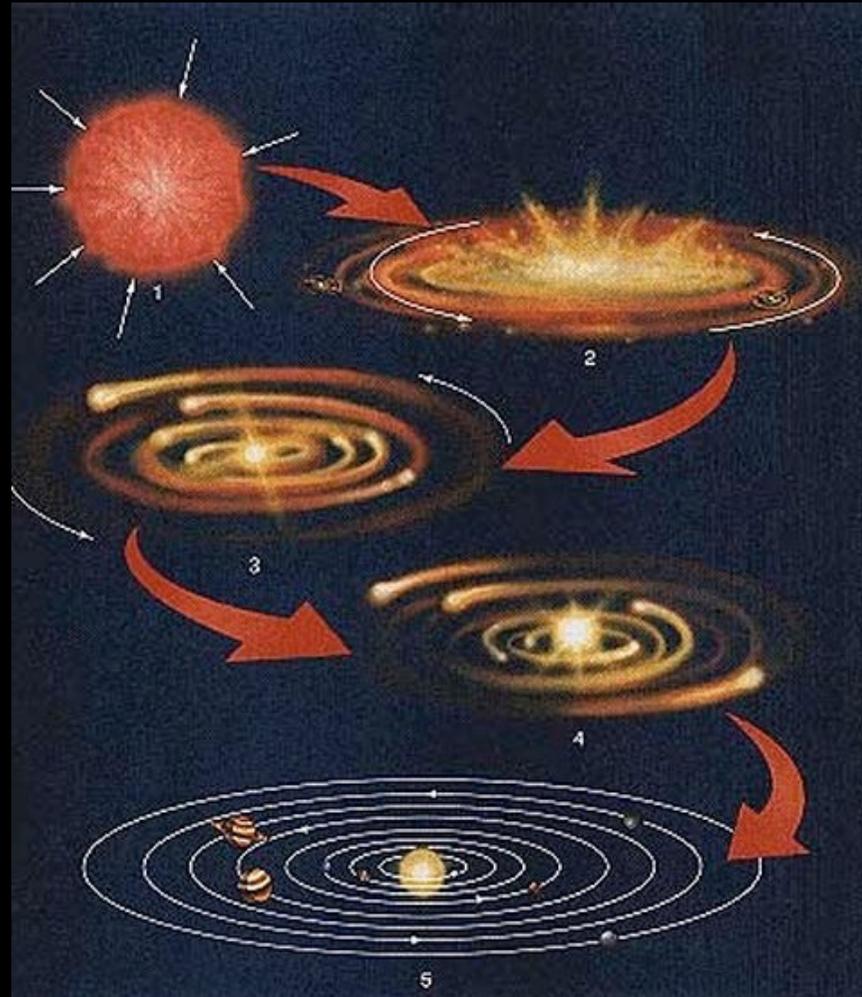
10 million years later

20 million years later

120 million years later &  
until today



# Birth of the Solar System?



[www.aerospacweb.org](http://www.aerospacweb.org)



# EARTH is the right distance from the SUN



Too close:  
**BURN UP**



Too far:  
**FREEZE**

Not to scale

**Neptune**

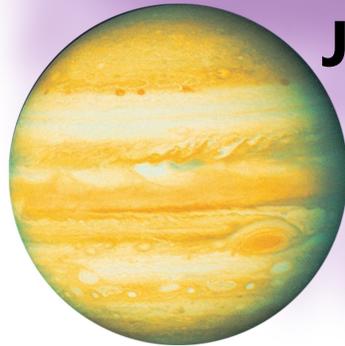


**Saturn**



**Gas with  
liquid center**

**Jupiter**



**Uranus**



- **Mercury**

-  **Venus**

-  **Earth**

-  **Mars**

- **Pluto** (demoted in 2006)

**Solid**

Sun

98% helium & hydrogen

Mercury

Venus

1% helium & hydrogen

Earth

Mercury



Almost no  
atmosphere

Venus



Hot, dense  
atmosphere

Earth



Life-sustaining  
atmosphere

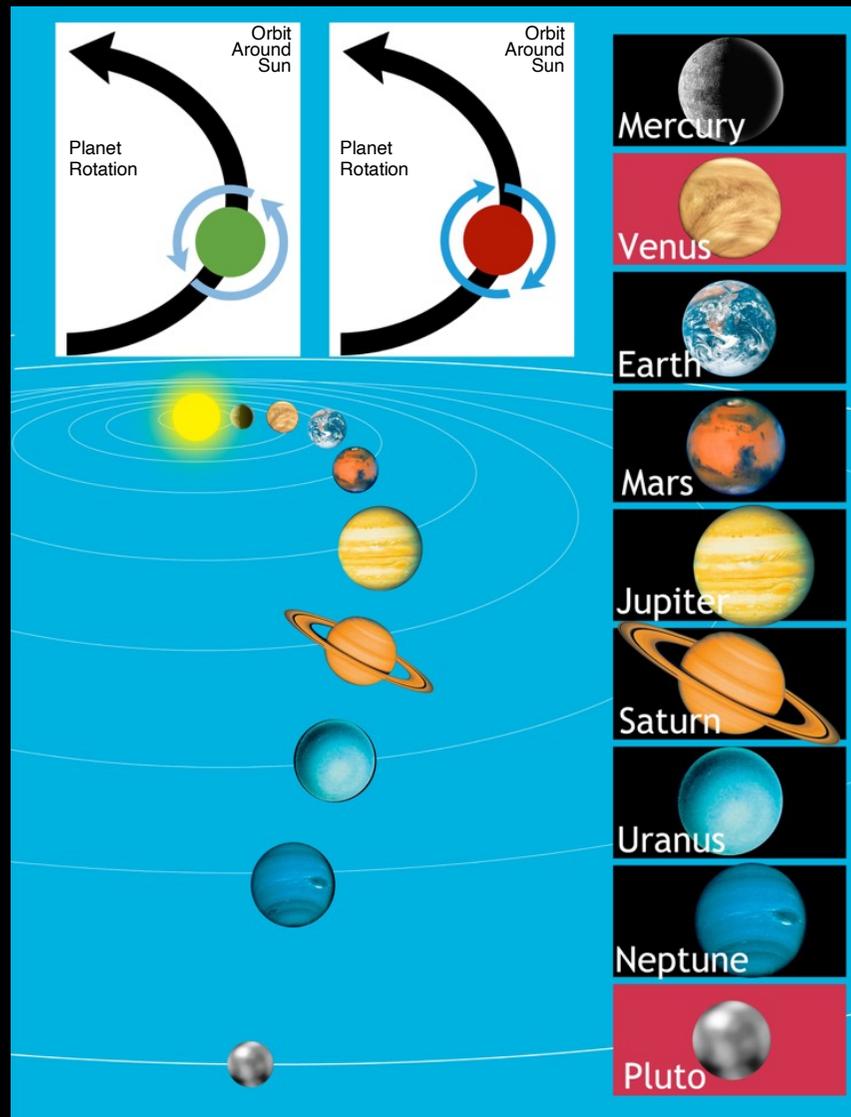
Mars



Very thin  
atmosphere

# The planets have:

- Different orbits
- Different speeds of rotation
- Different tilts of the axis
- Different numbers of rings, moons, or both
- Different atmospheres



Mercury

Venus

Earth

Mars

Jupiter

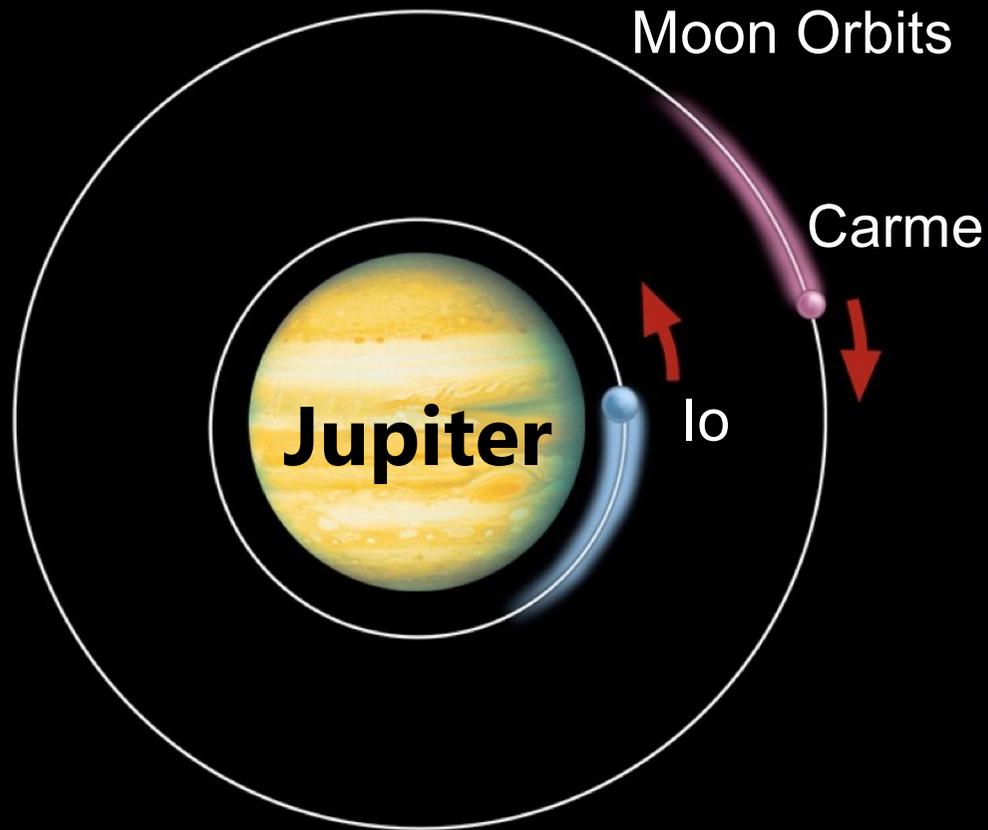
Saturn

Uranus

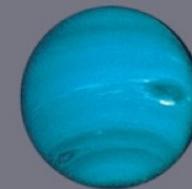
Neptune

Pluto

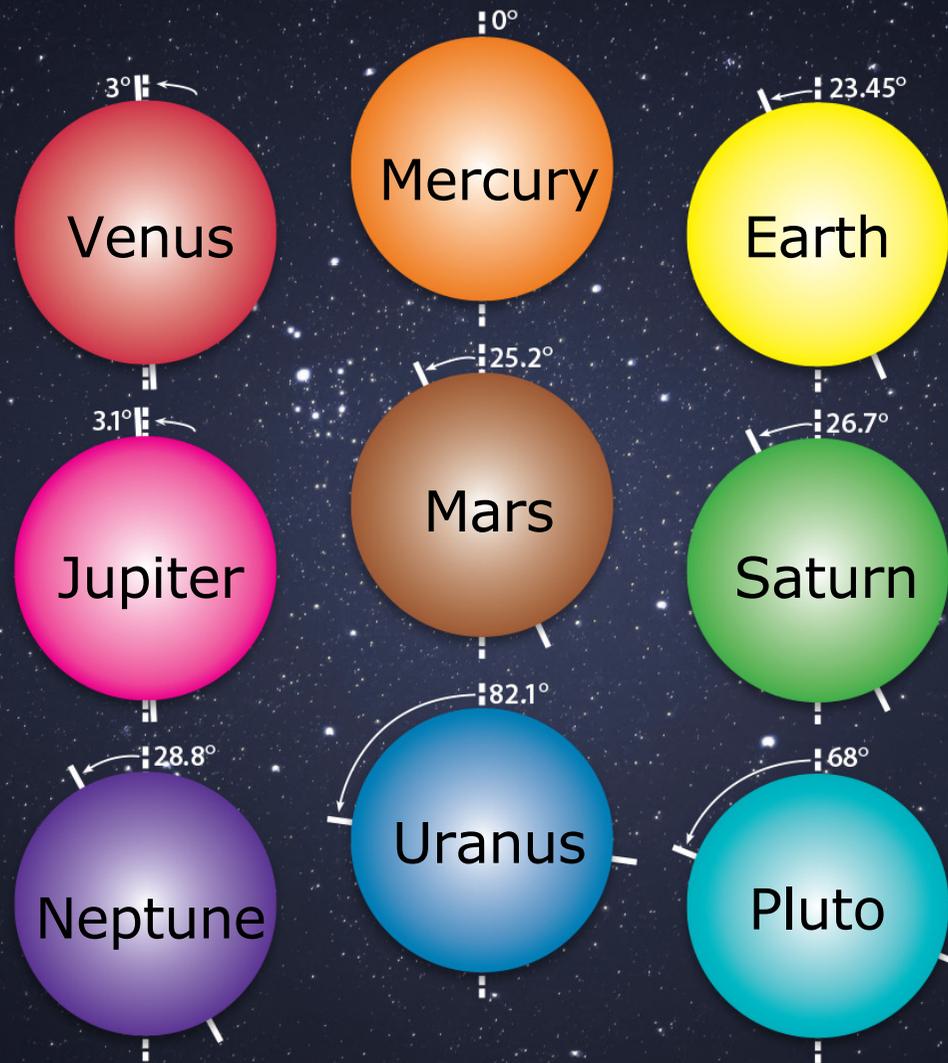
# Moons in Both Directions



**Saturn**



**Neptune**



“Our brief survey has revealed the **structure and content** of the Solar System, but the story is not closed. We can successfully **interpret** many of the observed features, such as the sources of meteorites. However, a **plethora of unanswered questions** remain concerning the **origin** of these features. These unresolved questions prompt tentative answers (Chapter 7).”

**1987**

Michael Zeilik & Elske Smith, *Introductory Astronomy & Astrophysics* (Philadelphia: Saunders College Publ., 1987), p. 33.



# UNKNOWN SOLAR SYSTEM

The six greatest mysteries  
in our cosmic backyard

31 January 2009

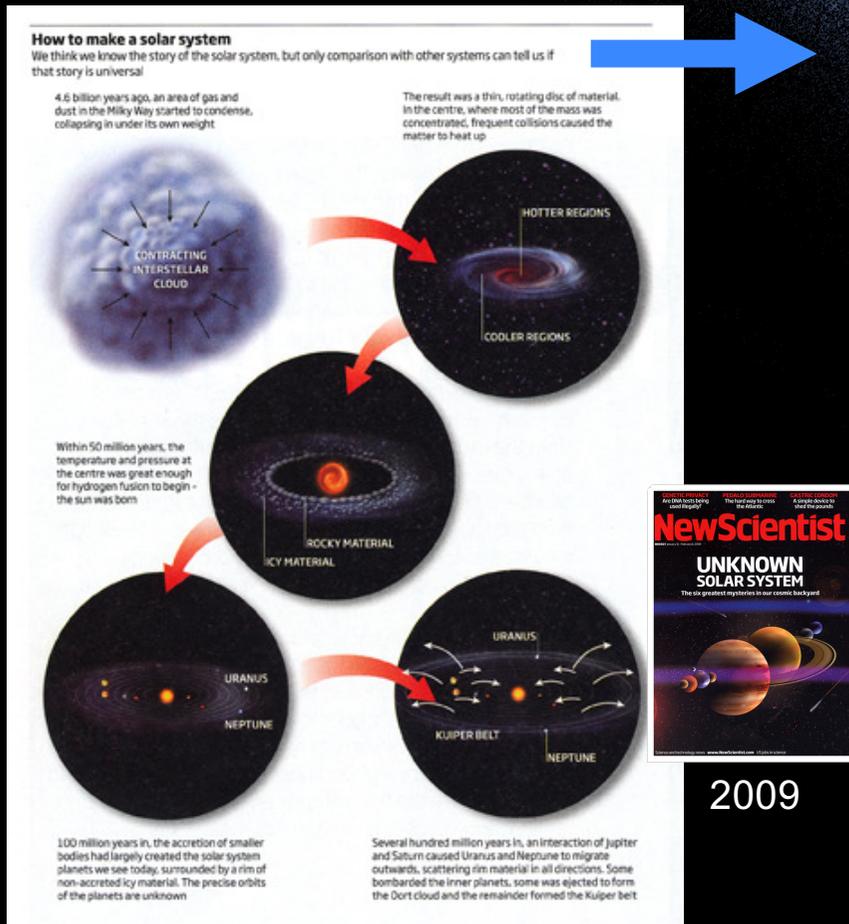
# “6 Enduring Mysteries”

- How did the solar system form?
- Why are the sun and moon the same size in the sky?
- Is there a planet X?
- Where do comets come from?
- Is the solar system unique?
- How will it end?



Stephen Battersby, “Our Unknown Solar System,” *New Scientist* 201:2693 (31 Jan. 2009), pp. 29–35.

# How to make a solar system



“We **think** we know the story of the solar system, but only comparison with other systems can tell us if that story is universal.”

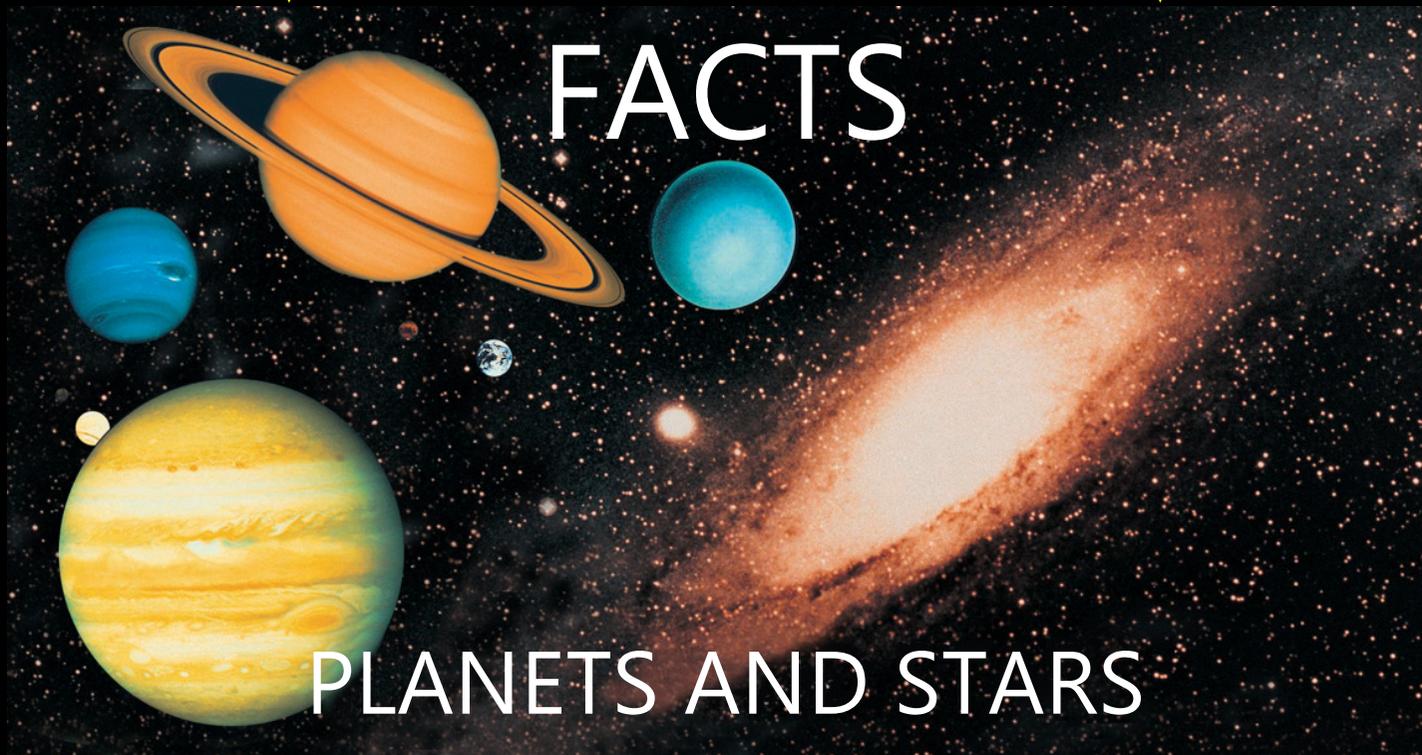
But is the story **TRUE?** They don't know!



Stephen Battersby, “Our Unknown Solar System,” *New Scientist* 201:2693 (31 Jan. 2009), pp. 29–35.

OPERATION science

ORIGIN science





# The Origin of Stars and Galaxies?



“Among the most important relics are the structures we see in the sky: many stars are grouped into clusters, the clusters themselves along with loose stars like our sun are grouped into galaxies, and the galaxies themselves are grouped into clusters of galaxies.”



Steven Weinberg, “Origins,” *Science*, 230:4721 (Oct. 4, 1985), p. 16.

“A second great disappointment of astrophysics has been that we still do not have a clear and detailed understanding of how these structures were **formed. We do not even know** whether the smaller structures formed first and then coalesced into the larger ones, or whether the larger structures formed first and then broke up into the smaller ones.”

Steven Weinberg, “Origins,” *Science*, 230:4721 (Oct. 4, 1985), p. 16.

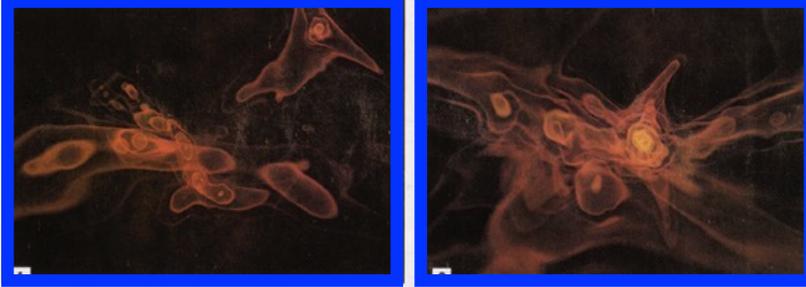
“It is also a bit disturbing that all these **estimates** of the ages and compositions of the stars rest on **elaborate calculations** of what is going on inside them, but **all that we observe is the light emitted from their surfaces.**”



**1985**

Steven Weinberg, “Origins,” *Science*, 230:4721 (Oct. 4, 1985), p. 16.

LET THERE BE LIGHT



**A FIRST STAR** is born in Penn State astronomer Tom Abel's virtual observatory. (1) A computer simulation isolates a molecular cloud of hydrogen, thousands of light-years across, roughly 100 million years after

the Big Bang. (2) Dense concentrations of hydrogen develop over millions of years. (3) The model zooms in on an area 100 light-years across, revealing an embryonic fireball 1 million times the mass of our sun.

“A FIRST STAR  
is born in Penn State  
astronomer Tom Abel’s  
virtual observatory.”

Tim Folger, “The Real Big Bang,” *Discover* (Dec. 2002), p. 44.

“Most of the Universe’s mass is invisible and no one really knows what it is. . . . **Star formation is shrouded in mystery.** Generally speaking, a star forms when a cloud of gas collapses under gravity. However, if the cloud is too hot, pressure will combat the effect of gravity and prevent the cloud from collapsing. So to form a star, the gas cloud must have a way of cooling down.”

Marcus Chown (astronomer), “Let there be light,” *New Scientist*, 7 Feb. 1998, p. 30.

“This isn’t as easy as it sounds. In today’s Universe this is accomplished by a huge array of molecules which collide and radiate away the heat. However, the atoms necessary for making all but the simplest molecules—molecular hydrogen—have to be made inside stars. **It is a chicken-and-egg situation. . . .**”

Marcus Chown (astronomer), “Let there be light,” *New Scientist*, 7 Feb. 1998, p. 30.

“[John] Mather, [NASA’s Goddard Space Flight Center in Maryland], says, ‘We have **no direct evidence of how galaxies were formed, how the first stars formed** without the help of the prior generation of stars, **how galaxies evolved**, whether they were formed from aggregations of smaller units or from subdivisions of large ones.’

Marcus Chown (astronomer), “Let there be light,” *New Scientist*, 7 Feb. 1998, p. 30.

“If none of us knew in advance that stars exist, frontline research would offer plenty of convincing reasons for why stars could never form.”



Neil deGrasse Tyson

Neil deGrasse Tyson, *Death by Black Hole and Other Cosmic Quandaries* (New York: W.W. Norton & Co., 2007), p. 187.



# The Origin of the Universe?



“You may have noticed that, despite all these brave words, **I have not explained the origin of the universe.** The reason, of course, is that this is a matter about which scientists **still have no clear idea. . . . It may be that we shall never know,** just as we may never learn the ultimate laws of nature. But I wouldn’t bet on it.”



Steven Weinberg, “Origins,” *Science*, 230:4721 (Oct. 4, 1985), p. 18.

“Don't let the cosmologists try to kid you on this one. They have not got a clue either. . . . ‘In the beginning,’ they will say, there was nothing—no time, space, matter, or energy. Then there was a quantum fluctuation from which—whoa! Stop right there. You see what they mean? First there is nothing and then there is something—and before you know it, they have pulled a hundred billion galaxies out of their quantum hats.”

David Darling, “On creating something from nothing,” *New Scientist*, Vol. 151 (14 Sept. 1996), p. 46.

“**Dark matter** is one of the greatest mysteries of modern science. Although it is invisible, its gravitational effects lead astronomers to believe it makes up at least 90% of the mass of the universe. But they do not know what it is or how it is distributed. **Until they solve the dark matter puzzle, astronomers cannot claim to understand the Cosmos in any depth.**”

David Whitehouse (science editor), “New light on dark matter,” BBC News Online, 9 March 2000.



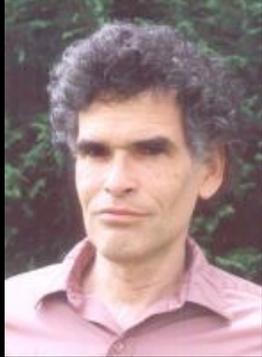
“Big bang theory relies on a growing number of **hypothetical** entities—things that we have **never observed**. Inflation, dark matter and dark energy are the most prominent. Without them, there would be **fatal** contradictions between the observations made by astronomers and the predictions of the big bang theory.”

Eric Lerner, “Bucking the Big Bang,” *New Scientist*, 182:2448 (22 May 2004), p. 20. Signed by 34 scientists from 10 countries.



**"An open exchange of ideas is lacking** in most mainstream conferences. Whereas Richard Feynman could say that 'science is the culture of doubt,' **in cosmology today doubt and dissent are not tolerated,** and young scientists learn to remain silent if they have something negative to say about the standard big bang model.

Eric Lerner, "Bucking the Big Bang," *New Scientist*, 182:2448 (22 May 2004), p. 20. Signed by 34 scientists from 10 countries.



Those who doubt the big bang fear that saying so will cost them their funding."

Eric Lerner, "Bucking the Big Bang," *New Scientist*, 182:2448 (22 May 2004), p. 20. Signed by 34 scientists from 10 countries.

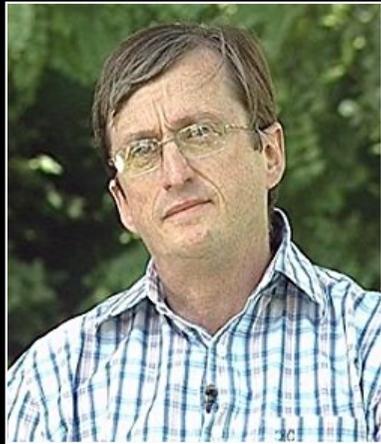


Hilton Ratcliffe

Reporting on “The First Crisis in Cosmology Conference” in 2005 held in Portugal:

“That the Big Bang theory will pass into history as an artifact of man’s **obsession with dogma** is a certainty; it will do so on its own merits, however, because it stands on feet of clay.”

Hilton Ratcliffe, “The First Crisis in Cosmology Conference,” Progress in Physics Vol. 3 (Dec. 2005): 24.



Hilton Ratcliffe

“... Papers presented at the conference by **some of the world’s leading scientists showed beyond doubt** that the weight of scientific evidence clearly indicates that the dominant theory on the origin and destiny of the Universe is **deeply flawed.**”

Hilton Ratcliffe, “The First Crisis in Cosmology Conference,” *Progress in Physics* Vol. 3 (Dec. 2005): 24.



Hilton Ratcliffe

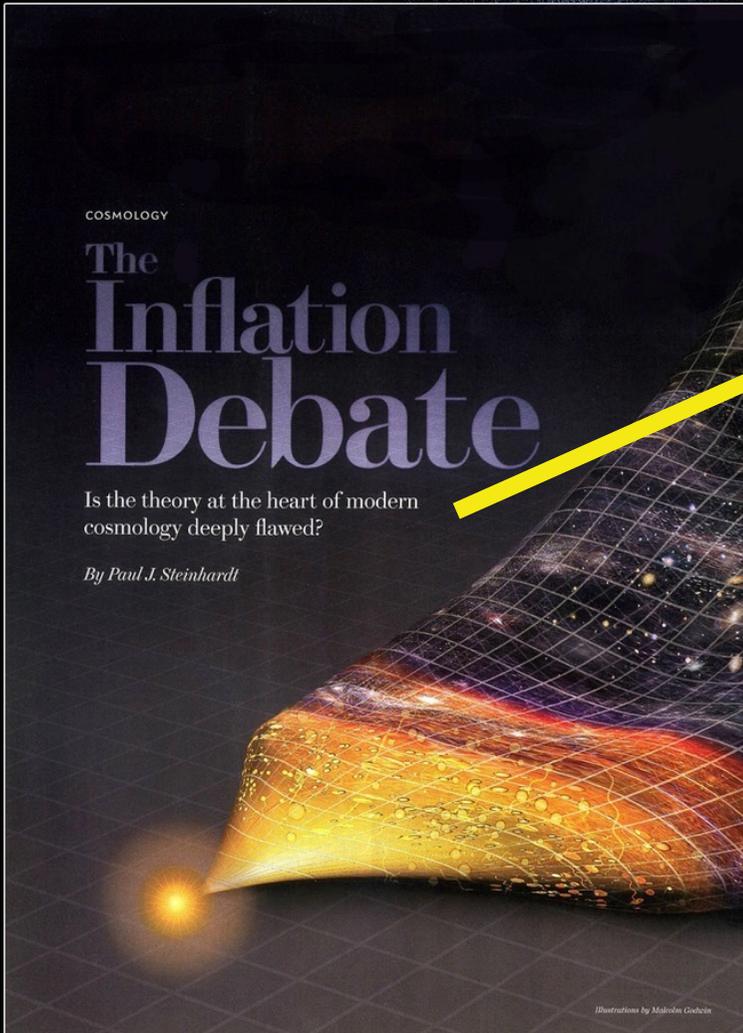
“The **implications of this damning consensus** are serious indeed, and will in time fundamentally affect not only the direction of many scientific disciplines, but also threaten to change the very way that we do science.”

Hilton Ratcliffe, “The First Crisis in Cosmology Conference,” *Progress in Physics* Vol. 3 (Dec. 2005): 24.

April 2011

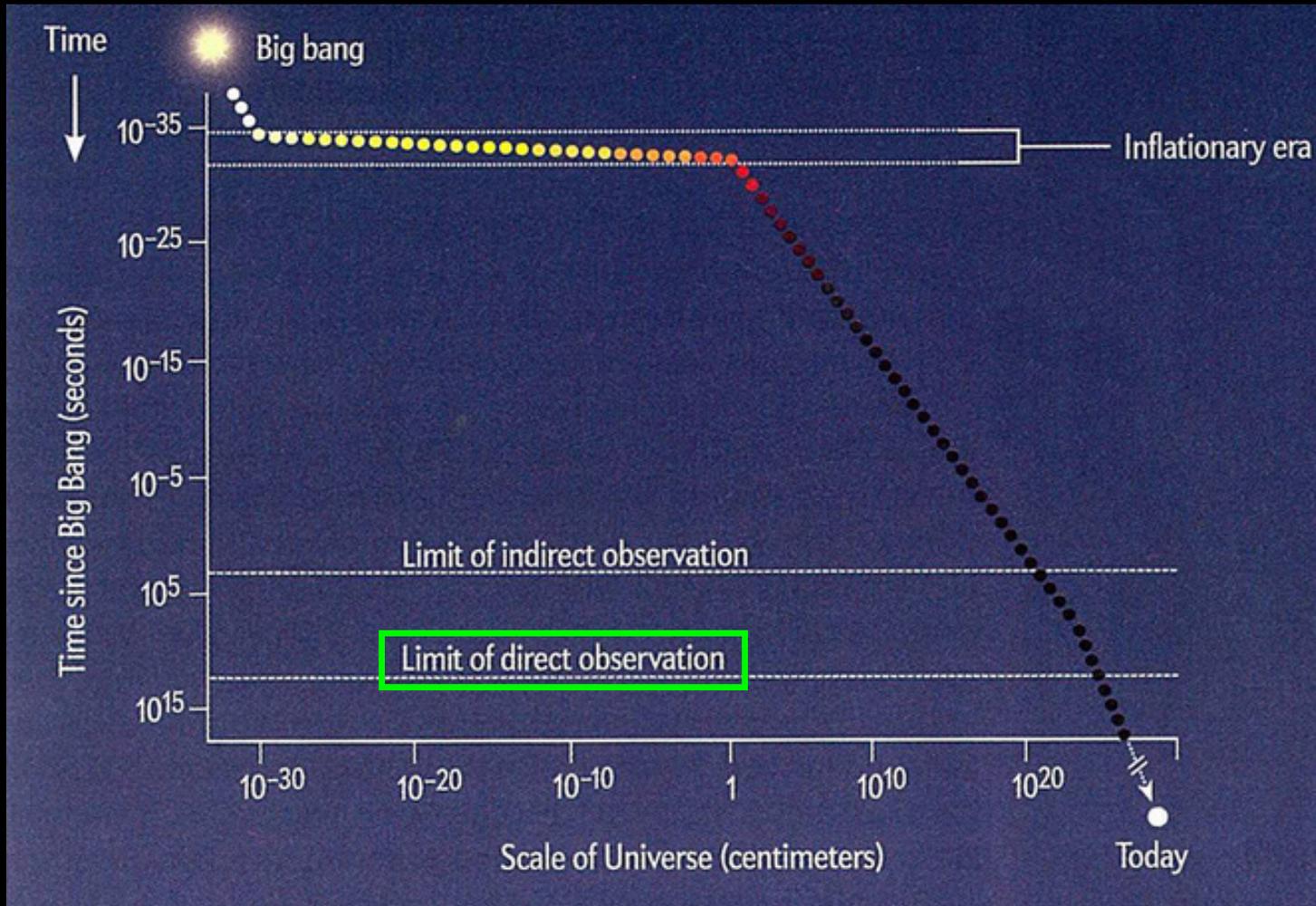
Why our best explanation of how the universe evolved must be **fixed**—or **replaced**

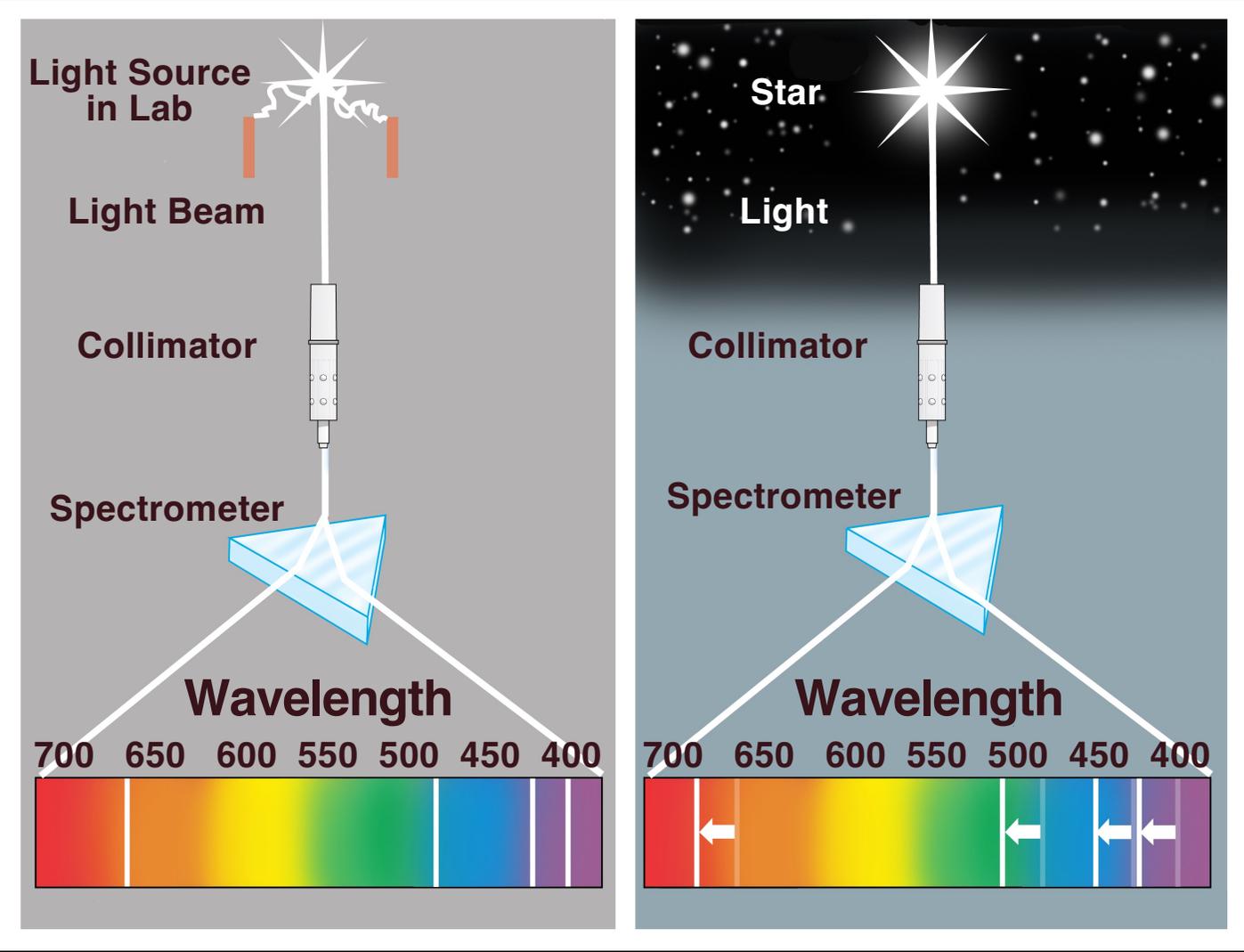


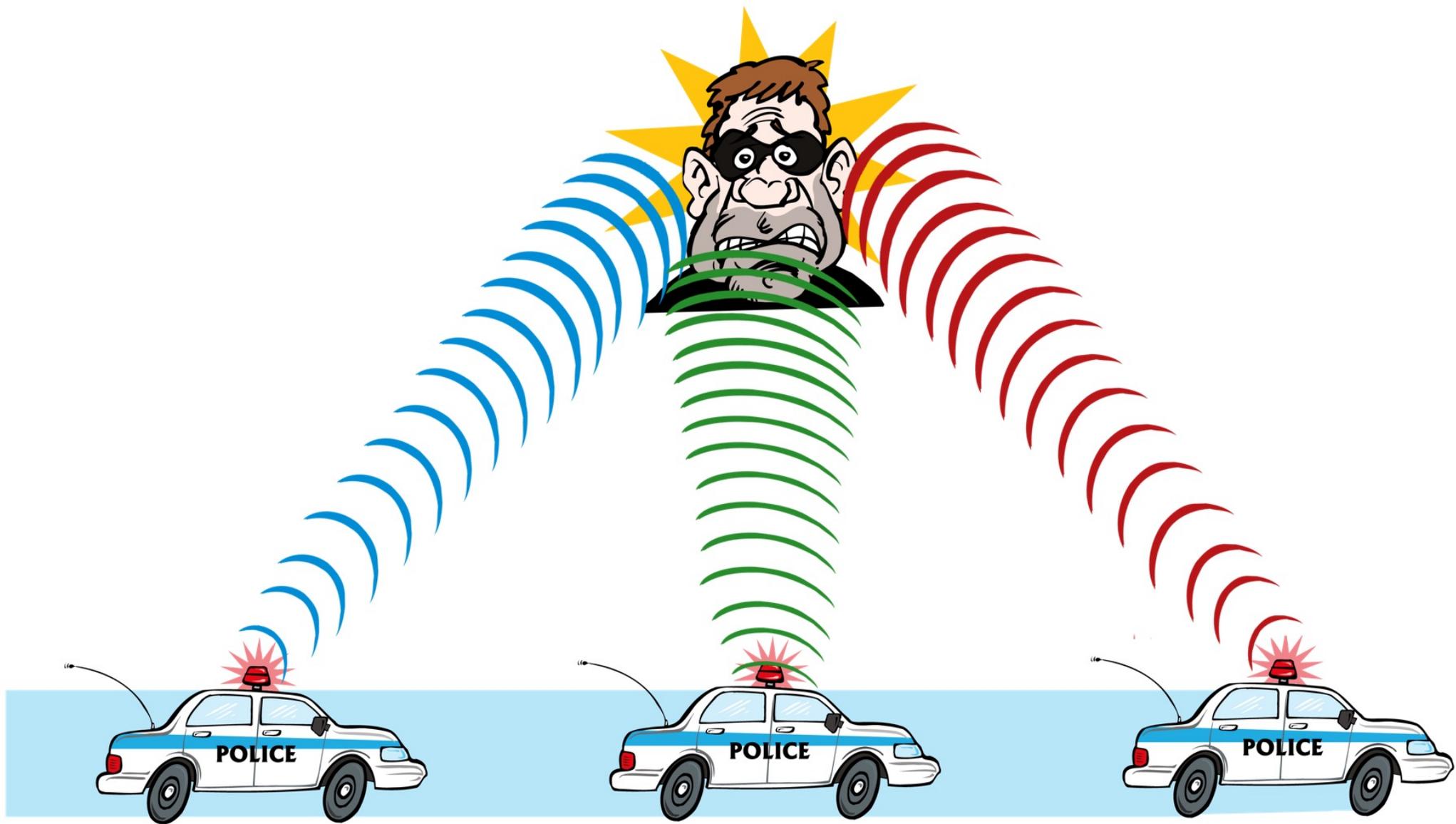


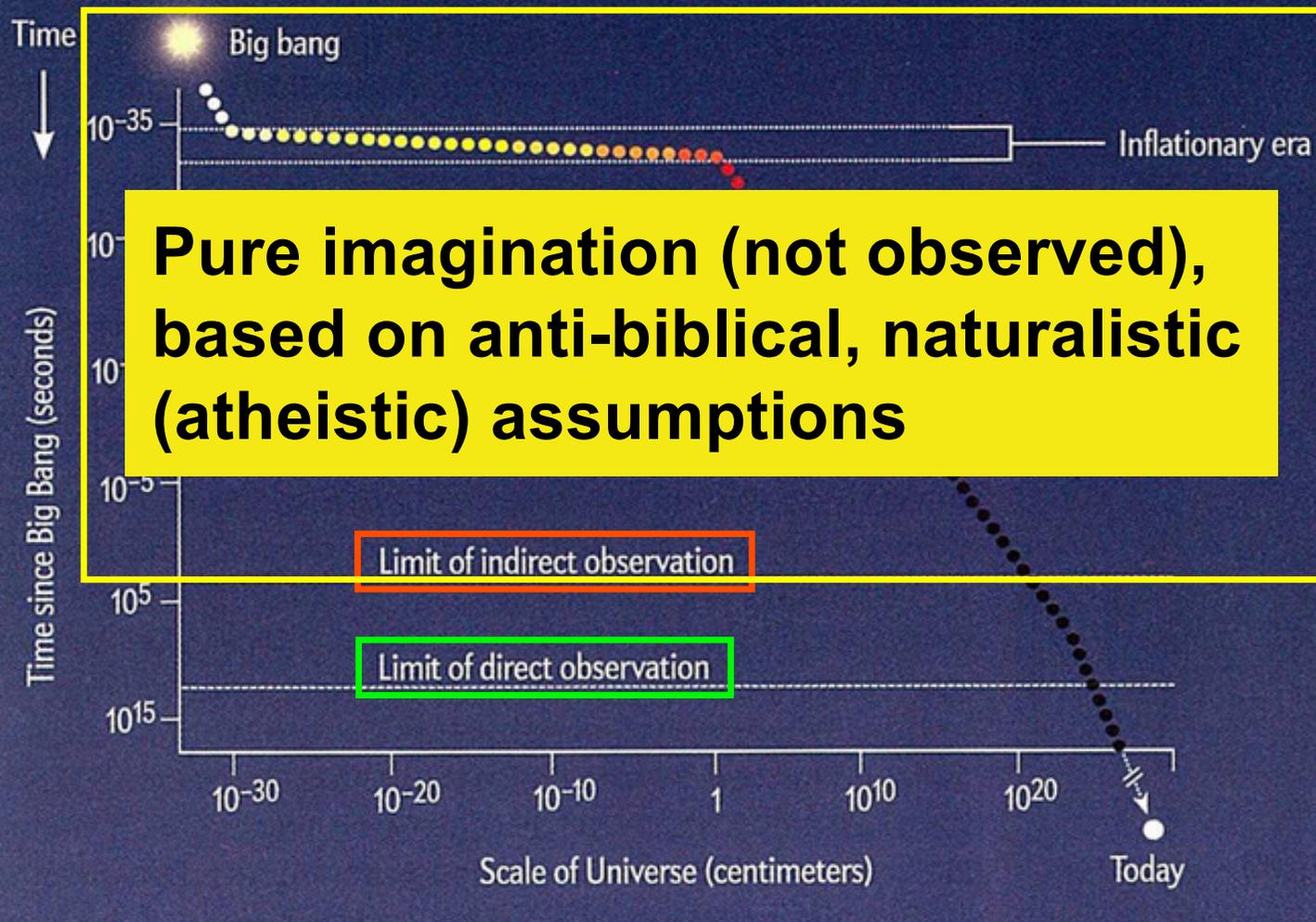
Is the theory at the  
heart of modern  
cosmology deeply  
flawed?

Paul J. Steinhardt  
Albert Einstein Professor in  
Science & Director of the Princeton  
Center for Theoretical Science,  
Princeton University







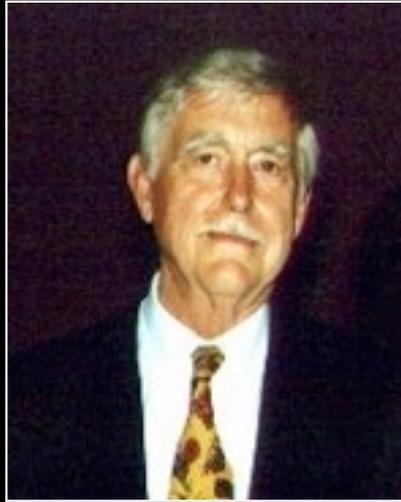




Sir Fred Hoyle

“Science today is **locked into paradigms**. Every avenue is **blocked by beliefs that are wrong**, and if you try to get anything published by a journal today, you will run up against a paradigm, and the editors will turn it down.”

J. Horgan, “Profile: Fred Hoyle,” *Scientific American* 272:3 (1995), pp. 24–25.



Halton Arp

“Scientists, particularly at the most prestigious institutions, regularly **suppress and ridicule findings** which contradict their current theories and assumptions. . . . astronomers now feel compelled to **fit the observations to the theory** and not vice versa.”

Halton Arp, *Seeing Red: Redshifts, Cosmology and Academic Science* (Montreal, CAN: Apeiron, 1998), p. 12.

Origin – “cosmic egg”?

**Unknown!**

Something from nothing?

**Nonsense!**

Origin – Moon?

**Unknown!**

**Big Bang?**

**Unbelievable myth!**

Origin – Solar System?

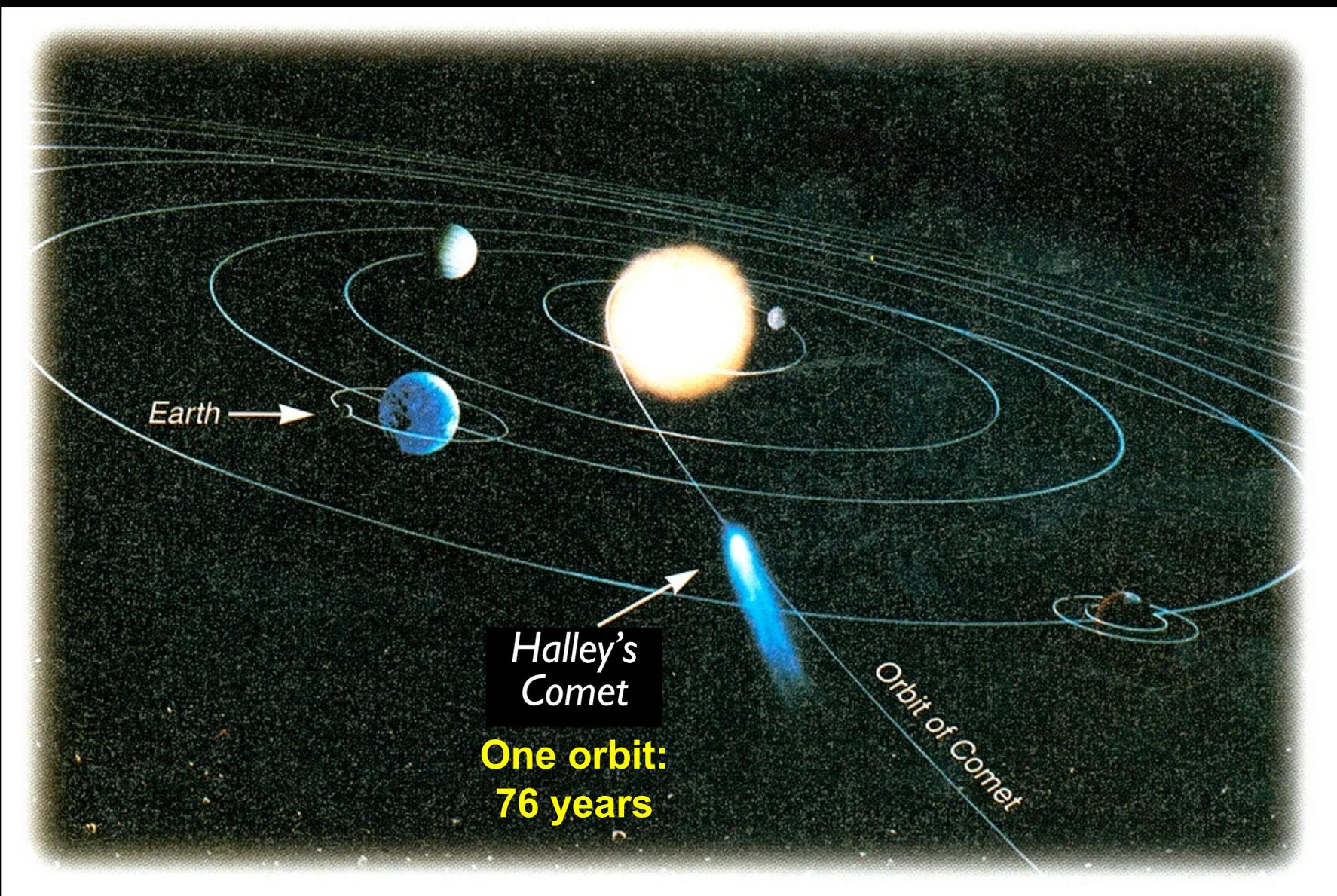


The Age of the Universe?



# How old am I?

If you don't know **HOW** I came into existence, then you can't possibly know **WHEN** I came into existence.



Earth →

Halley's  
Comet

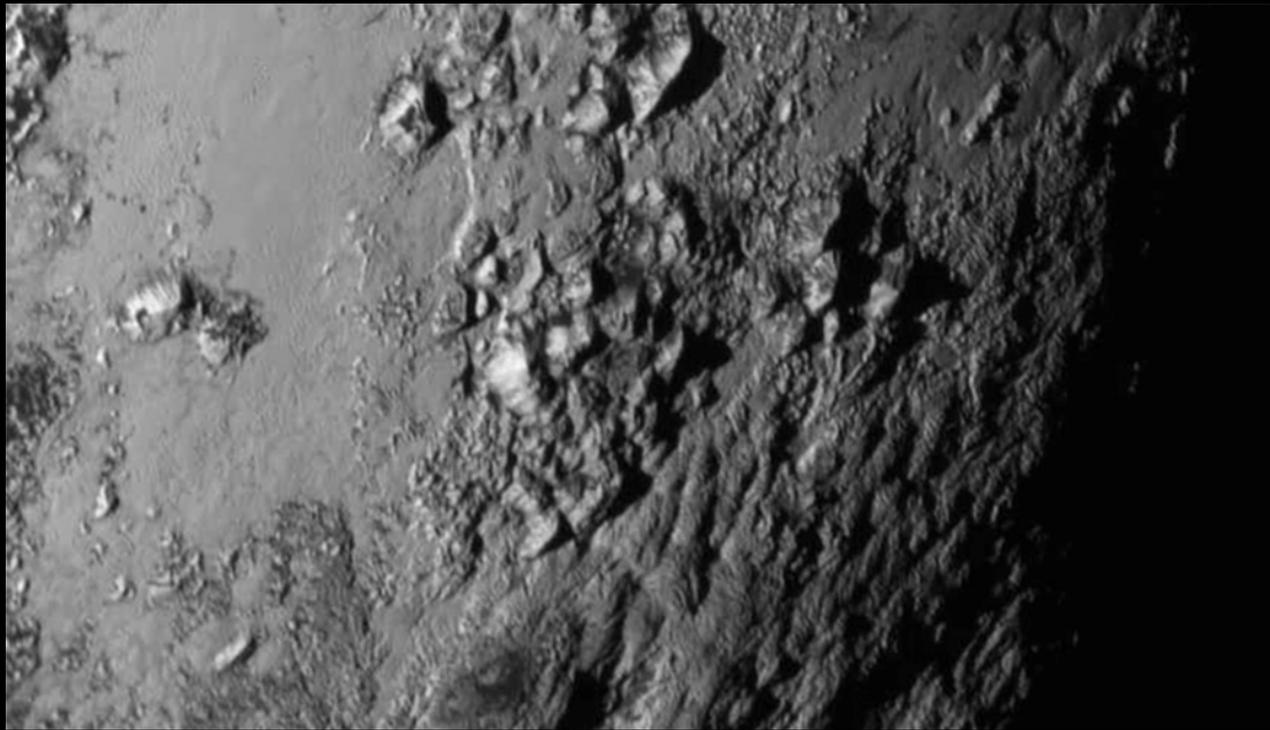
**One orbit:  
76 years**

Orbit of Comet

Faulkner comets

For more answers visit

**AnswersInGenesis.org**



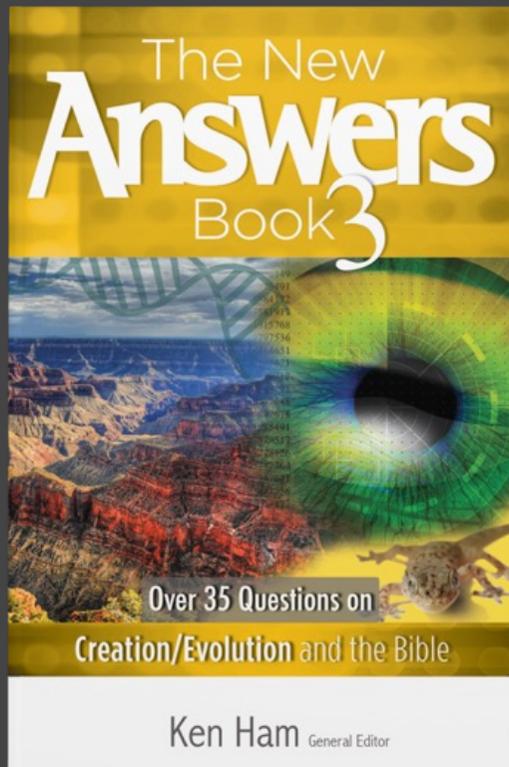
“New close-up images of a region near Pluto’s equator reveal a giant surprise: a range of youthful mountains.”

The spiral arms  
should not exist,  
if these galaxies  
are billions of  
years old.



AiG web site: [Faulkner spirals](#)

# ≡ The New Answers Book 3

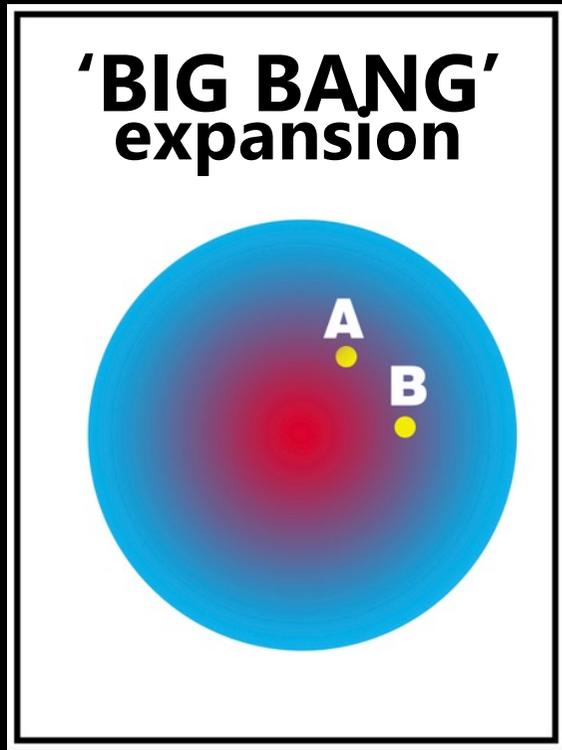


**Chapter 12:** Evidences for a young universe

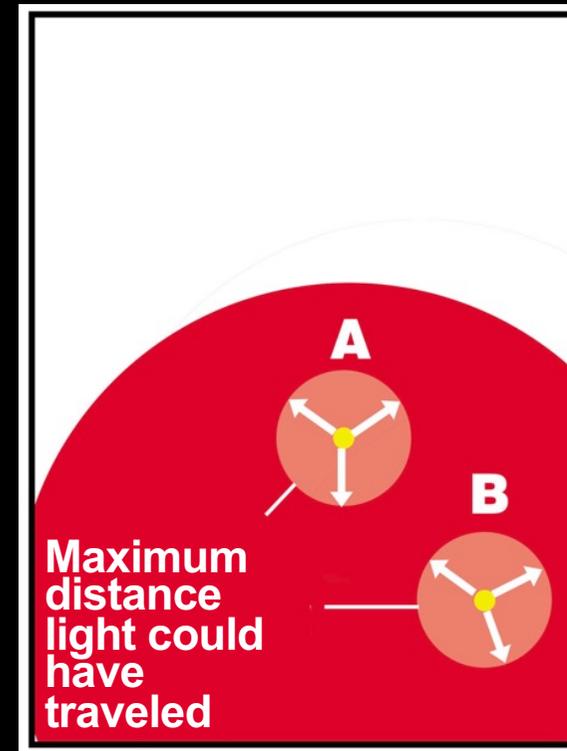
The whole book is **FREE** on the web site.



# Big Bang “Horizon Problem”

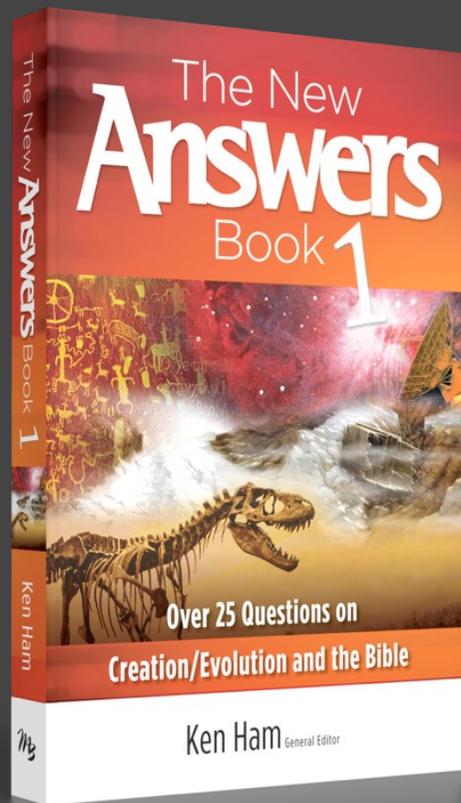


Early in the alleged big bang, points A and B start out with different temperatures.



Today, points A and B have the same temperature, but not enough time has passed for them to exchange light/heat.

# ≡ The New Answers Book 1



**Chapter 19:** Does distant starlight prove the universe is old?

The whole book is **FREE** on the web site.





What Does the Bible Say?



## Psalm 33:6, 8–9

<sup>6</sup> **By the word of the Lord** the heavens were made, and by the breath of His mouth all their host. . . .

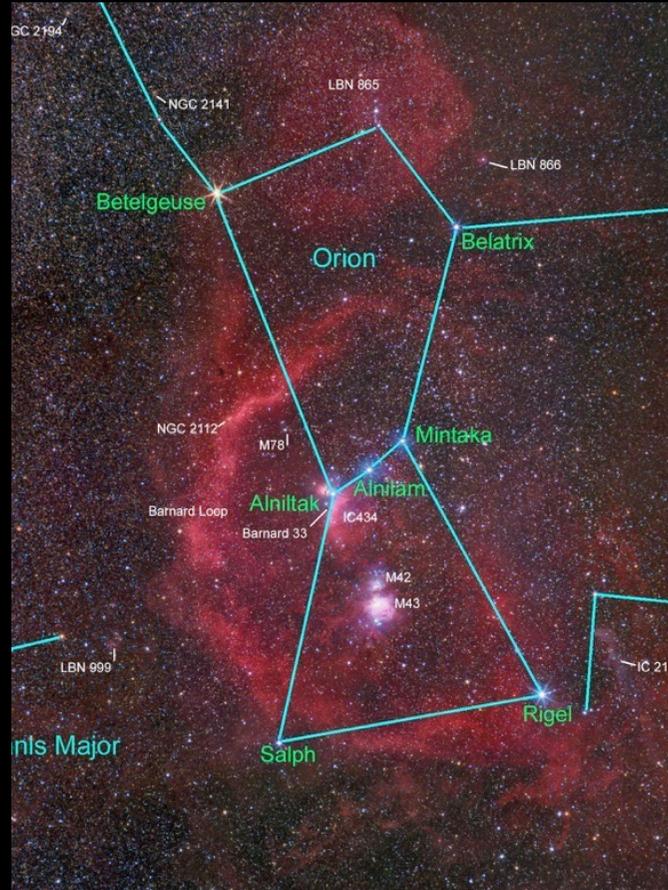
<sup>8</sup> Let all the earth fear the Lord; let all the inhabitants of the world stand in awe of Him.

<sup>9</sup> **For He spoke, and it was done; He commanded, and it stood fast.**

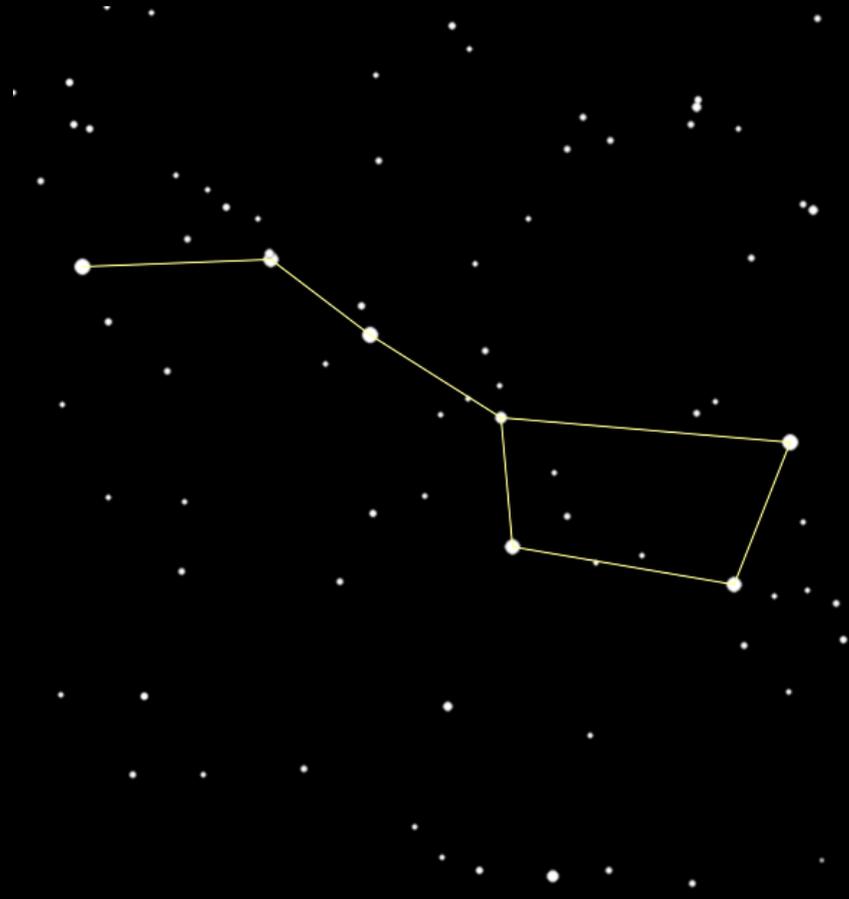
# Psalm 19:1

The heavens are telling of **the glory of God**; and  
their expanse is declaring the work of **His hands**.

# ORION



# BIG DIPPER



## Genesis 1:14–15

<sup>14</sup> Then God said, “**Let there be** lights in the expanse of the heavens to separate the day from the night; and let them be **for signs and for seasons and for days and years**. <sup>15</sup> And let them be for lights in the expanse of the heavens to give light on the earth.” **And it was so.**

**Let there be (10x)**

**And it was so (7x)**

**God saw ... it was good (7x)**

# Genesis 1:16

God **made** the two great lights: the greater light to govern the day, and the lesser light to govern the night; **He made** the stars also.

# Genesis 1:16

God **made** [et] the two great lights: [et] the greater light to govern the day, and [et] the lesser light to govern the night; [et] the stars also.

# Genesis 1:16

God **made** the two great lights: the greater light to govern the day, and the lesser light to govern the night; **He made** the stars also.

**asah:** to make or do

It **never** means “appear” or “make visible.”

**ra’ah:** to see or make visible (be seen)

Gen. 1:9 “let the dry land appear”

**Genesis 9:16**

“When the bow is in the **cloud** . . . .”

**Psalm 18:11**

“He made . . . darkness of waters, **thick clouds** of the skies.”

If God didn't make the Sun, Moon, and stars on Day 4, when did He make them?

- Verse 3?
- Verse 1?

## Genesis 1:14–17

<sup>14</sup> Then God said, “Let there be lights **in the expanse** of the heavens to separate the day from the night; . . .

<sup>15</sup> and let them be for lights **in the expanse** of the heavens to give light on the earth”; . . .

<sup>17</sup> God **placed them in the expanse** of the heavens to give light on the earth . . .

If God didn't make the Sun, Moon, and stars on Day 4, when did He make them?

- Verse 3?
- Verse 1?
- Before verse 1?

## Exodus 20:11

For in six days the Lord made the heavens and the earth, the sea, and **all that is in them**, and rested the seventh day; therefore the Lord blessed the Sabbath day and made it holy.

The Bible **clearly** teaches that  
the Sun, Moon and stars were  
**all** created on Day 4.

Big Bang



13.8 Billion  
Years Ago

Sun



4.6 Billion  
Years Ago

5 Billion  
Years Ago

Molten



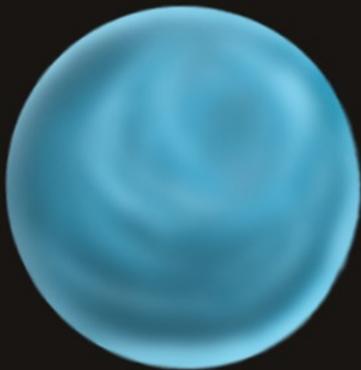
4.5 Billion  
Years Ago

First  
Oceans



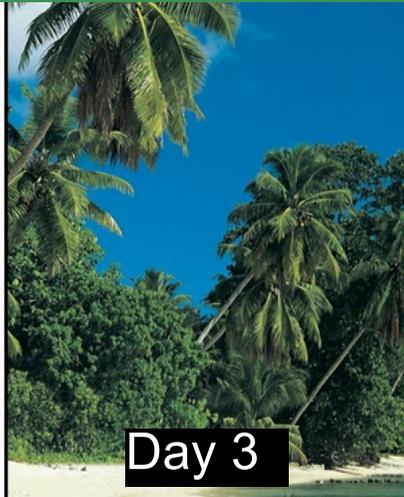
3.8 Billion  
Years Ago

Water-  
covered Earth



Days 1-2

Dry Land  
and plants



Day 3

Sun, Moon  
& Stars



Day 4

# Big Bang Future of the Universe



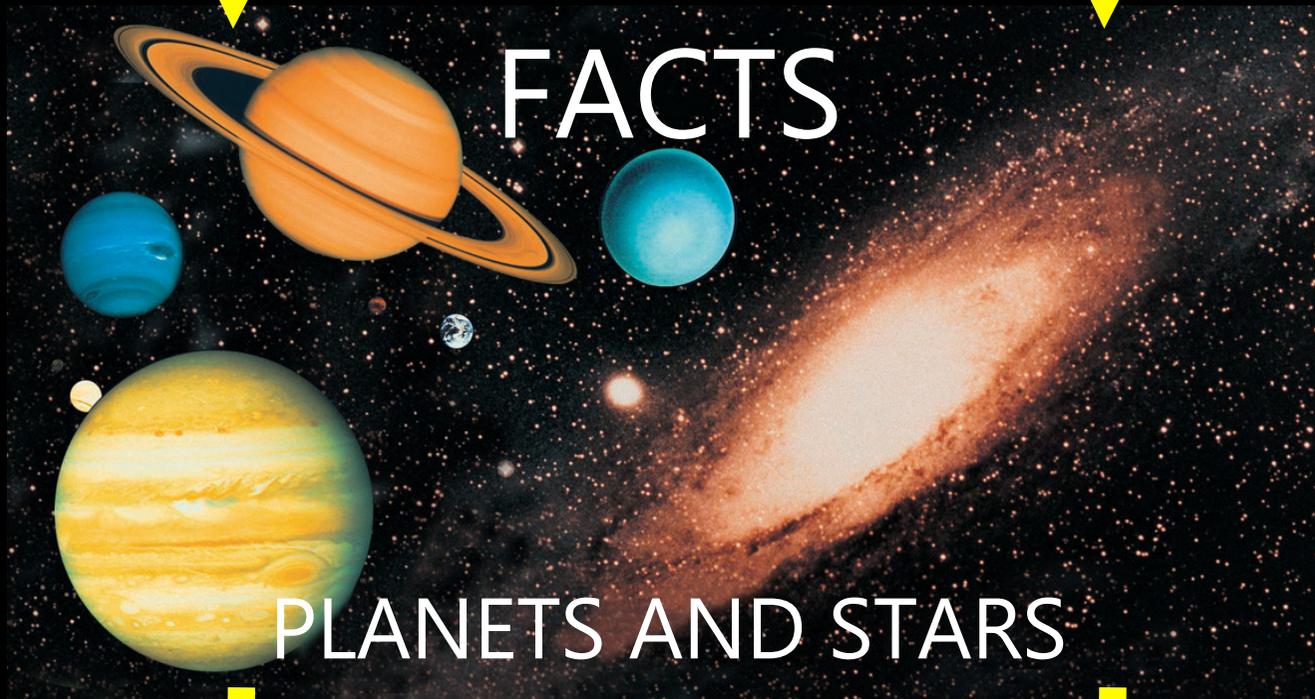
**Big  
Bang**

**Billions of Years**

**Heat  
Death**

~~NATURALISTIC ASSUMPTIONS~~

BIBLICAL ASSUMPTIONS



~~BIG BANG, BILLIONS OF YEARS~~

DESIGNED, YOUNG UNIVERSE

See notes for translation.

Dr. Lawrence  
Krauss  
Arizona State Univ.  
October, 2009

~~The first thing I noticed when I stepped out  
of the plane was the smell of the desert.  
It was a mix of the dry earth and the  
burning sun. The air was thick and  
heavy, and I could feel it on my skin.  
I had never experienced anything like this  
before. It was a new world, a new  
adventure. I was here to explore, to  
discover, to learn. And I was not  
disappointed. The desert was indeed  
a beautiful and mysterious place.~~

Your  
Father is a  
Red Giant.

Your  
Mother is  
a star.

**YOUR  
FATHER  
IS A RED  
GIANT.**

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**YOUR  
MOTHER  
IS A STAR.**

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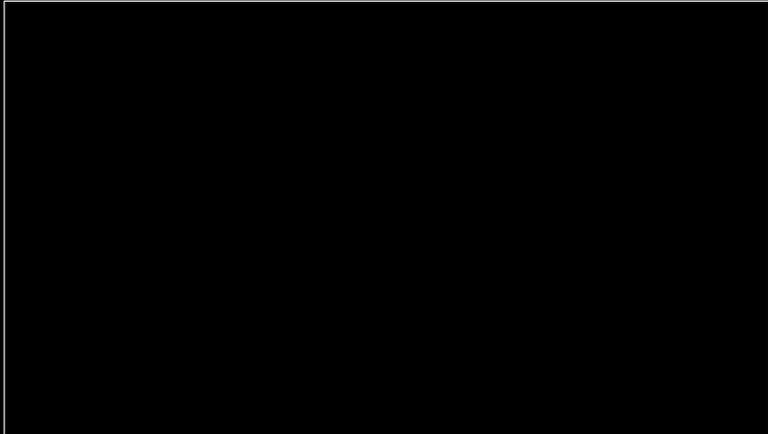
**YOUR  
GRANDPA  
IS A BLUE  
SUPERGIANT.**

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See why we're all made from stardust.

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Your  
Grandpa is a  
blue  
supergiant.



## Neil deGrasse Tyson

(famous PhD astronomer)

Cosmos: A Spacetime Odyssey  
(2014), episode 8

"Our ancestors worshipped the sun. They were far from foolish. It makes good sense to revere the sun and stars because we are their children. The silicon in the rocks, the oxygen in the air, the carbon in our DNA, the iron in our skyscrapers, the silver in our jewelry—were all made in stars billions of years ago. Our planet, our society, and we ourselves are stardust."



“So, what is human existence? How can you actually sum it all up? It turns out it’s pretty simple. We are dead stars looking back up at the sky.”

“We Are Dead Stars,” YouTube video posted by The Atlantic, May 14, 2014.

# Supernatural Design

“Atheism is so senseless. When I look at the solar system, I see the Earth at the right distance from the sun to receive the proper amounts of heat and light. This did not happen by chance.”

# Supernatural Design

“This most beautiful system of the sun, planets and comets, could only proceed from the counsel and dominion of an intelligent Being.”



Sir Isaac  
Newton



The heavens declare the glory of God.

Psalm 19:1

# History Book of the Universe!



The big bang  
happened billions  
of years ago.  
Take my word  
for it!



I created  
the earth  
**BEFORE** the sun,  
about 6000  
years ago. Take My  
Word for it!

**Confirmed by  
real science**



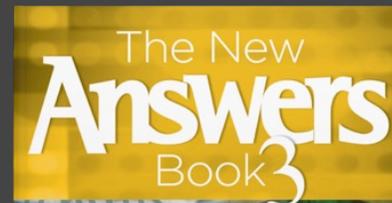
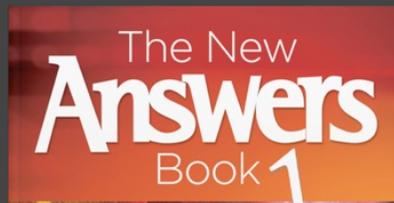
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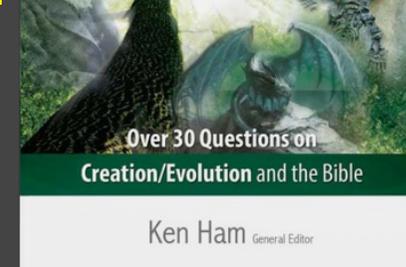
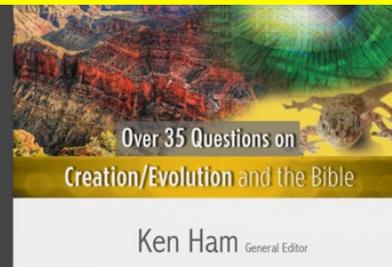
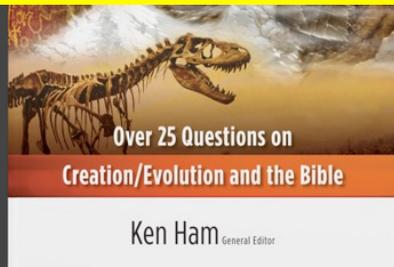


**answers**in**genesis.org**

# ≡ Answers Book 1, 2, 3 & 4

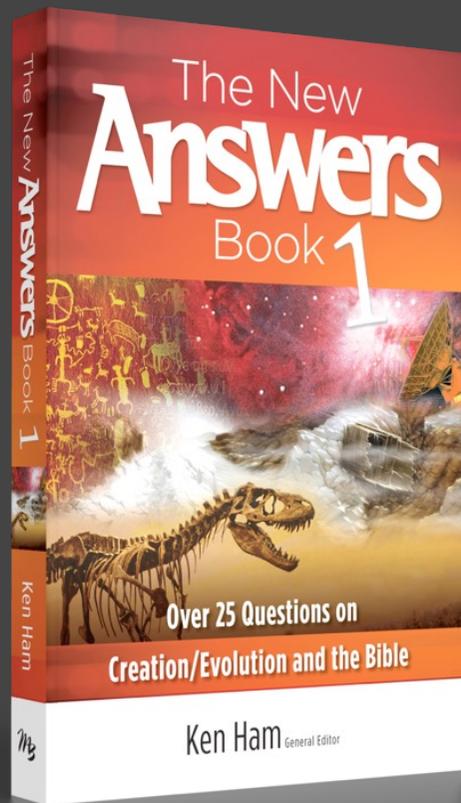


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Answers/Online Books.

# ≡ The New Answers Book 1



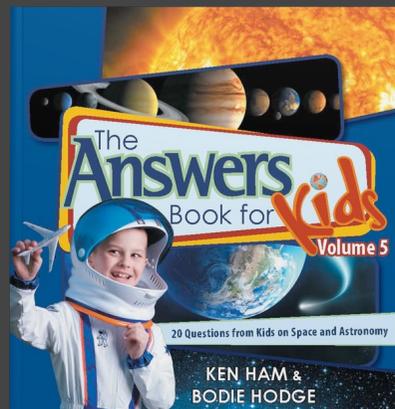
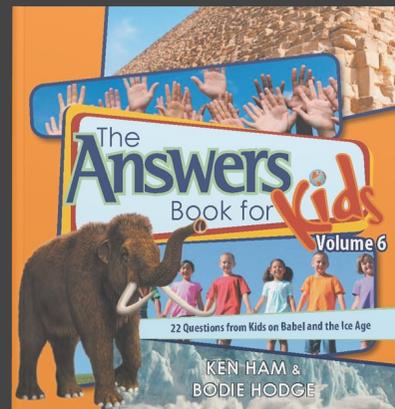
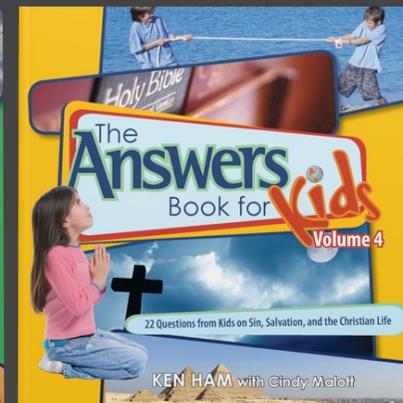
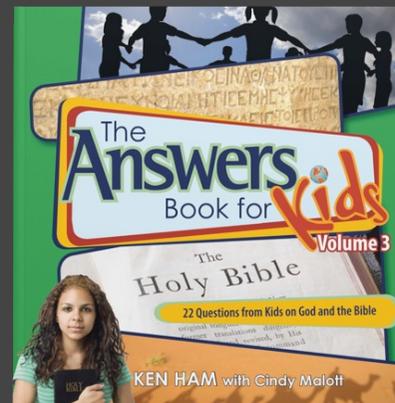
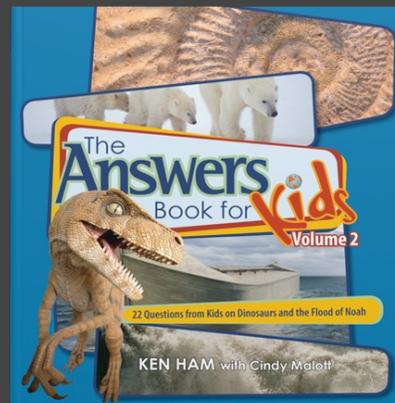
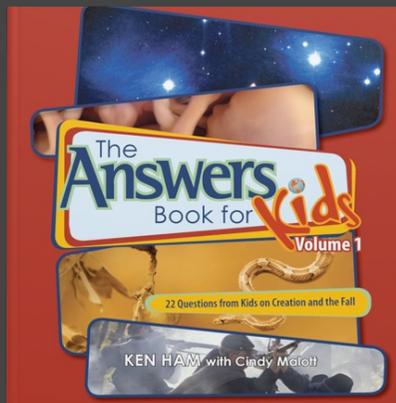
gap theory?  
day-age  
Cain's wife?  
theory?  
distant

starlight?

races?  
global Flood?  
carbon-dating?  
dinosaurs?



# ≡Answers for Kids Vol. 1, 2, 3, 4, 5 & 6

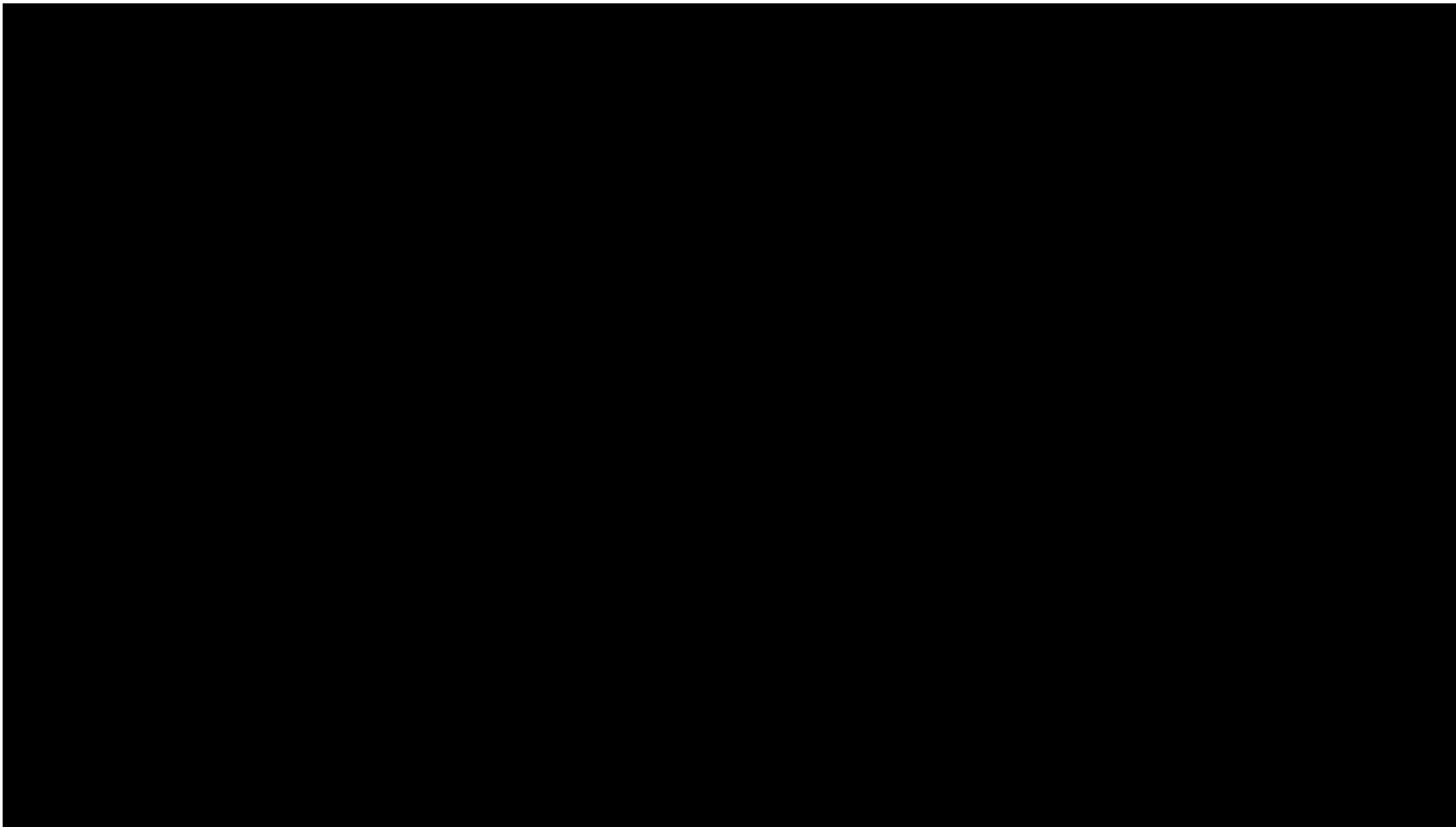




Creation Museum, Cincinnati, OH

# Ark Encounter, Williamstown, KY





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