



*Conversations*  
ON LIFE, GOD & OTHER SMALL TOPICS

From the **CREATION** of the **UNIVERSE**,  
Gods invisible character  
is **CLEARLY SEEN** through what was **MADE**....

ROMANS 1:20

GOD

?



OXFORD DICTIONARY

**GOD** (noun)

SPIRITUAL BEING THAT IS BELIEVED TO HAVE  
CREATED THE **UNIVERSE**

OXFORD DICTIONARY

**UNIVERSE** (noun)

EVERYTHING THAT EXISTS, INCLUDING

**MATTER / ENERGY**, SPACE, AND TIME.



## MW DICTIONARY - DEFINITION 2

**PROOF** (noun)

"Establishing the Validity of a statement especially by Derivation from **OTHER** statements in accordance with Principles of Reasoning."

**LOGIC PROOF (SYLLOGISM):**

PREMISE 1:  $A = B$

PREMISE 2:  $B = C$

CONCLUSION:  $A = C$

IS THERE

**PROOF OF GOD?**



## **Dr. Mouhab Z. Rizkallah DDS MSD CAGS**

**Biologist - Materials Scientist - Orthodontist & Dentofacial Orthopedist**

i  
am  
'healthy'  
**SKEPTIC**

# THE SCIENTIFIC JOURNEY OF

Dr. **Mouhab Z. Rizkallah** BA BS DDS MSD CAGS FACD

a

'healthy'

**SKEPTIC**

## OPPORTUNITIES FOR QUESTIONS:

If by the end of today's talk, you do not "BELIEVE" the science I present PROVES God exists, please logically counterpoint my points.

1 Rule: any counterpoints must be based on "Scientific Knowledge."

WHAT WOULD YOU SAY WHEN ASKED...

Do you **BELIEVE** in God?



# THE BELIEF EQUATION

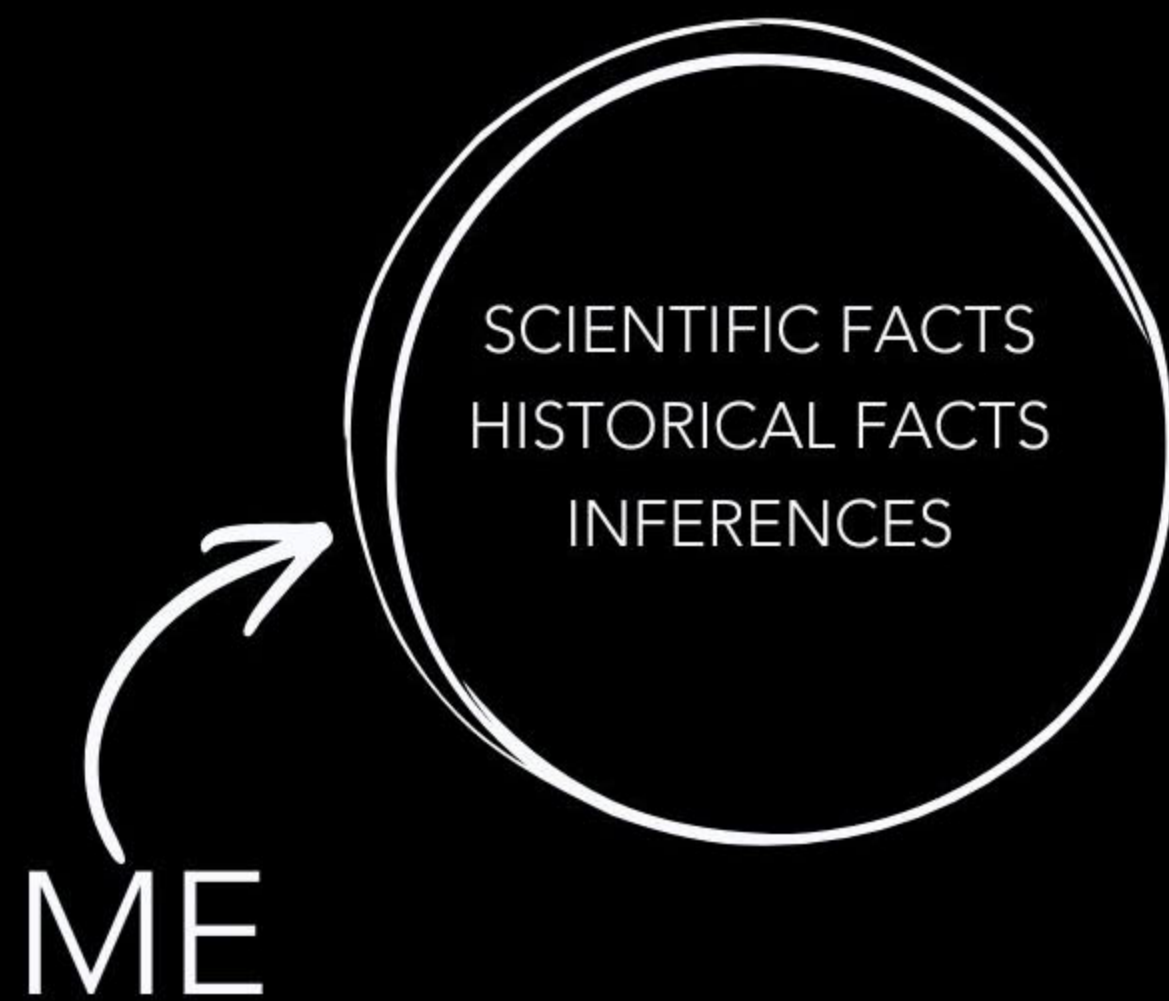
(THINGS SEEN)

(THINGS NOT SEEN)

**BELIEF** = KNOWLEDGE + FAITH

(THINGS SEEN) (THINGS NOT SEEN)

**BELIEF** = KNOWLEDGE + FAITH



I used to say: WHY WOULD I? 

**DO YOU "BELIEVE" IN GOD?**

 Now I say: HOW COULD I NOT?

# WHY THE CHANGE?

THROUGH FORMAL EDUCATION

# KNOWLEDGE

- MATERIALS SCIENCE
- BIOLOGY
- GENETICS
- COMPARATIVE PHYSIOLOGY

# Today's Talk

## MATERIALS SCIENCE KNOWLEDGE

- **ORIGIN** OF MATTER / ENERGY
- FINE TUNING OF **THAT** MATTER / ENERGY

.....and some other science tidbits

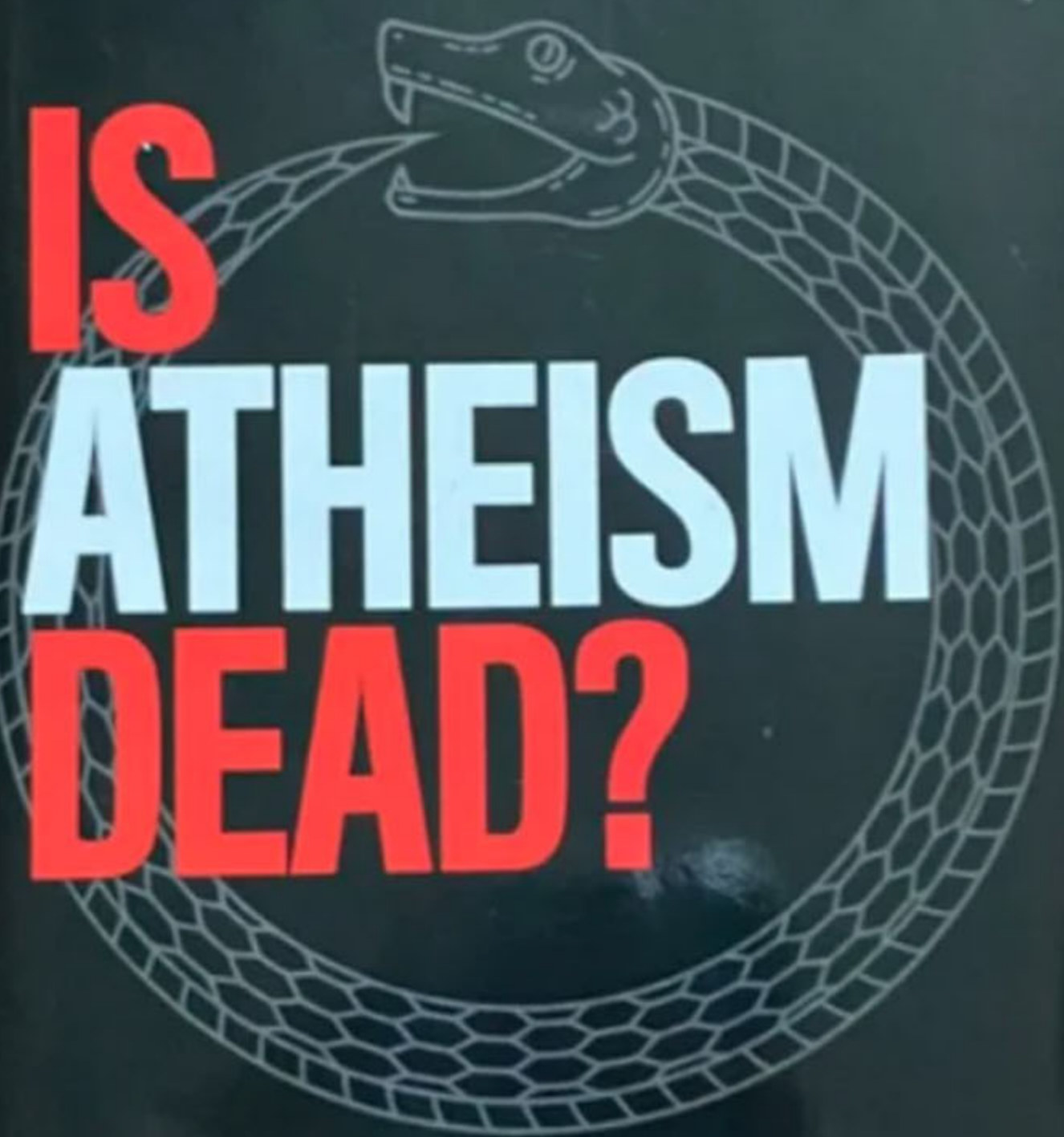
APRIL 8, 1966

# TIME

THE WEEKLY NEWSMAGAZINE

# Is God Dead?

VOL. 41



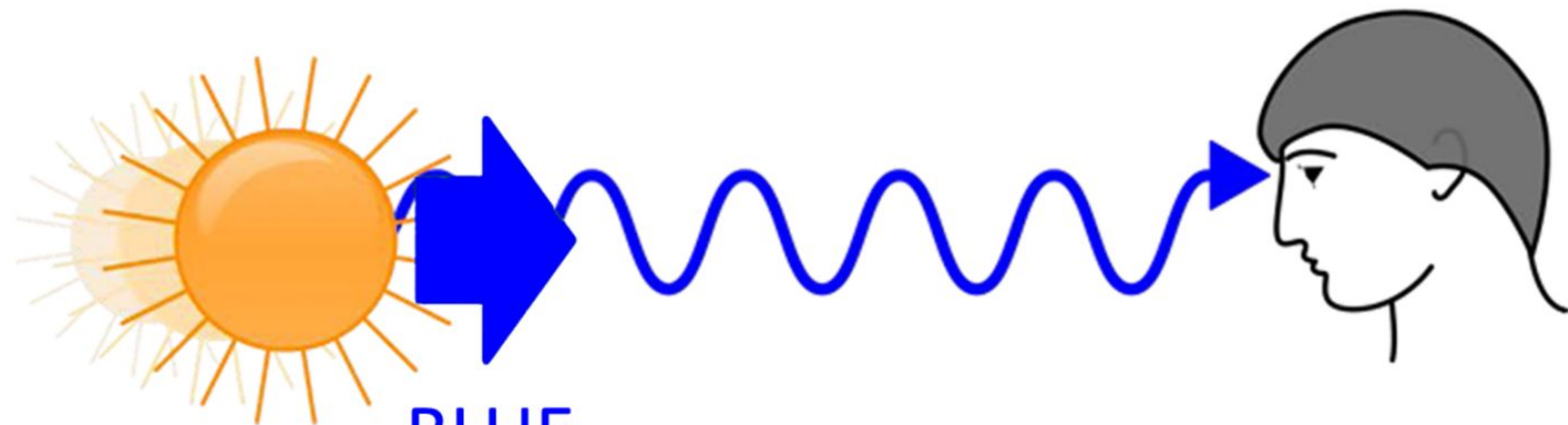
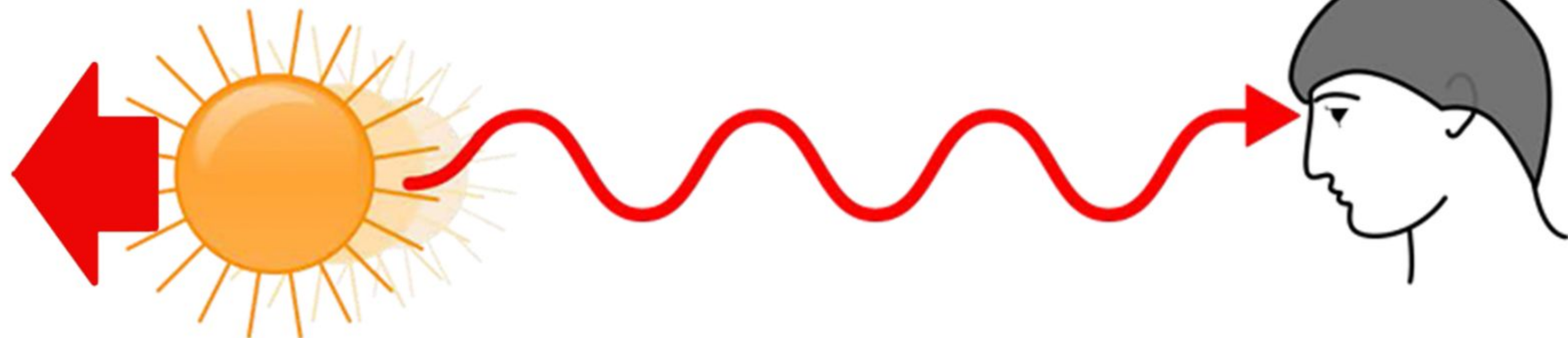
**IS**  
**ATHEISM**  
**DEAD?**

**ERIC METAXAS**

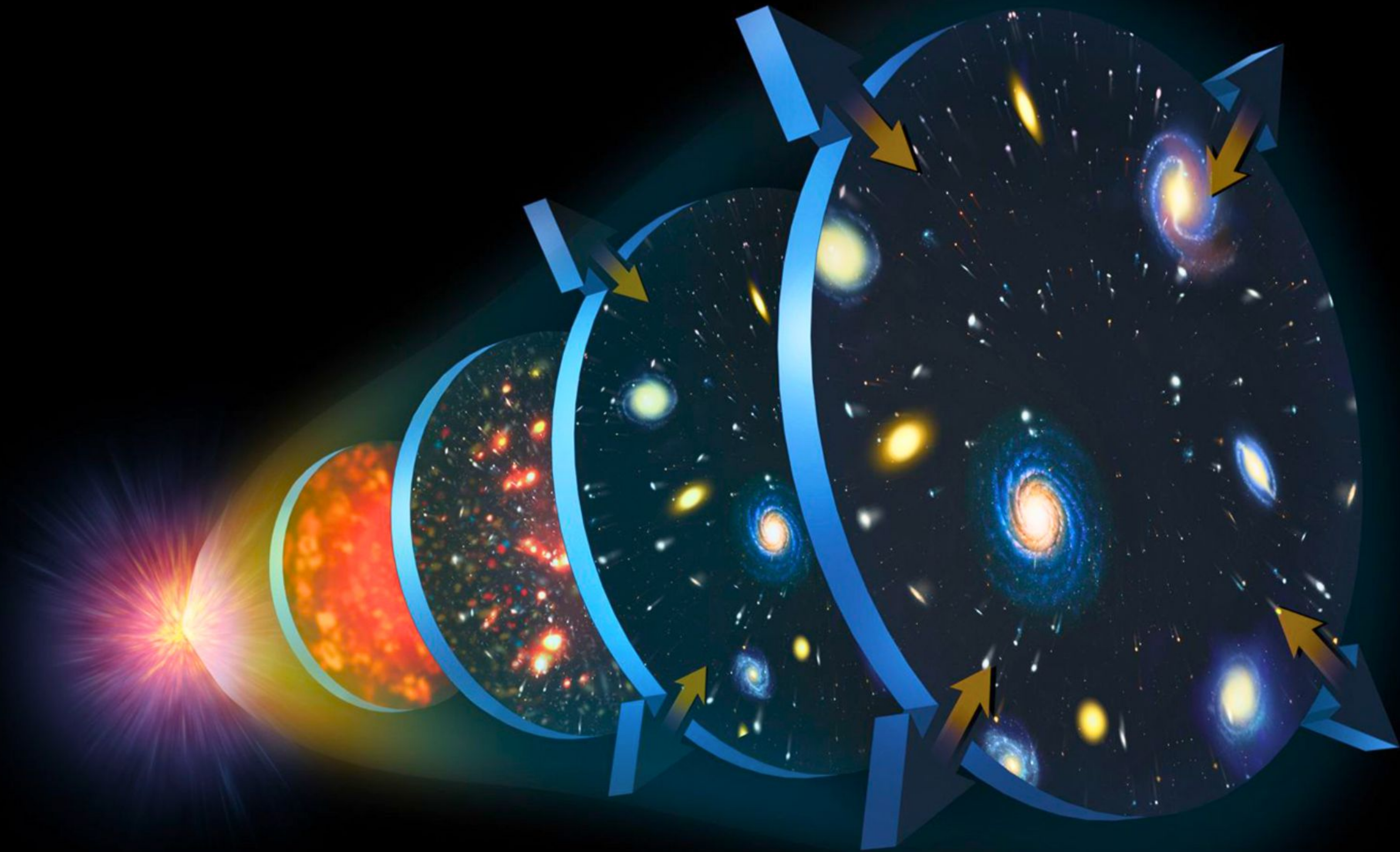


Einstein with Edwin Hubble, in 1931, at the Mount Wilson Observatory in California, looking through the lens of the 100-inch telescope through which Hubble discovered the expansion of the universe in 1929.

RED  
SHIFT



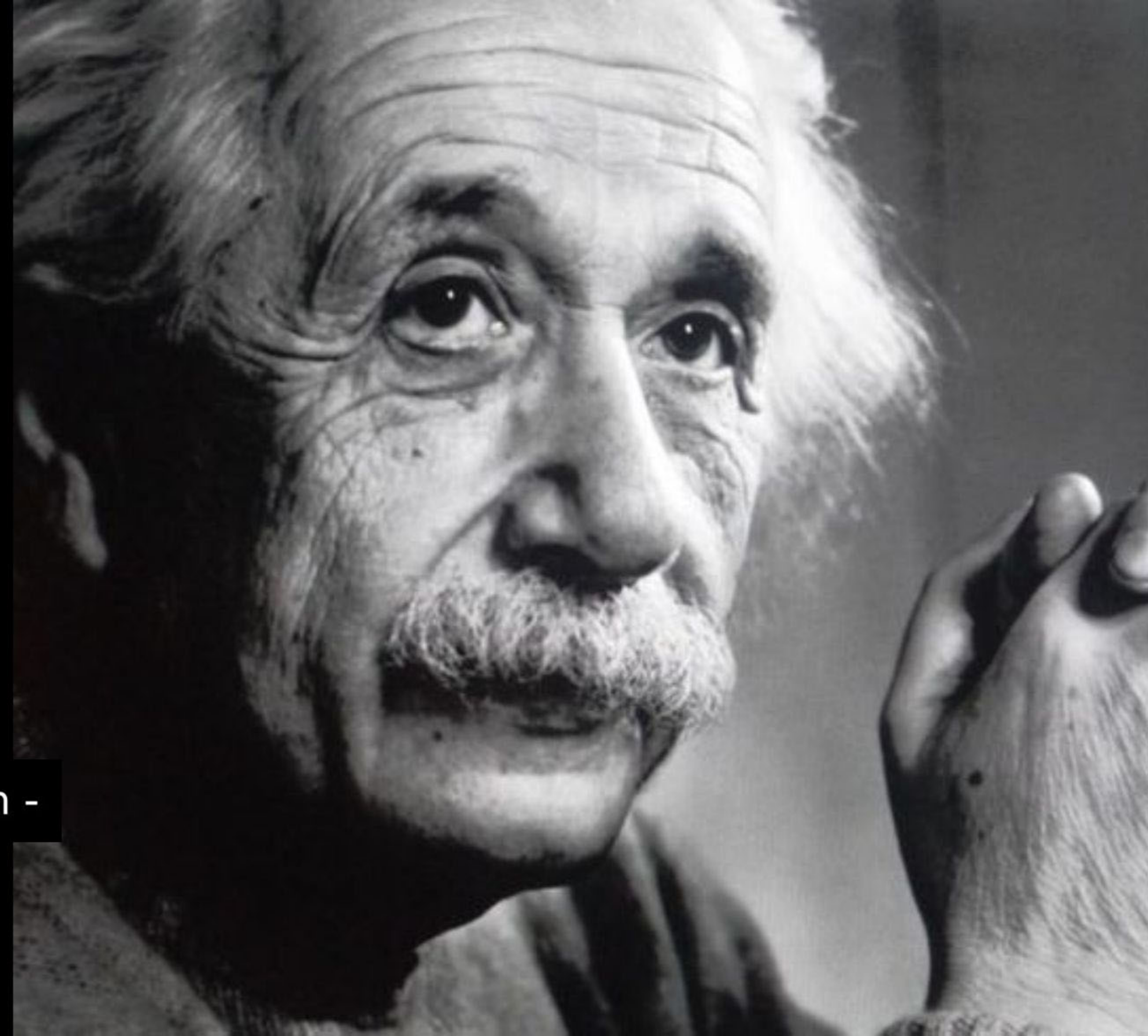
BLUE  
SHIFT



CERTAIN IT IS THAT A CONVICTION,  
AKIN TO RELIGIOUS FEELING,  
OF THE RATIONALITY OR INTELLIGIBILITY  
OF THE WORLD LIES BEHIND ALL SCIENTIFIC WORKS  
OF A HIGHER ORDER... THIS FIRM BELIEF,

A BELIEF BOUND UP WITH DEEP FEELING,  
IN A SUPERIOR MIND THAT REVEALS ITSELF  
IN THE WORLD OF EXPERIENCE,  
REPRESENTS MY CONCEPTION OF GOD.

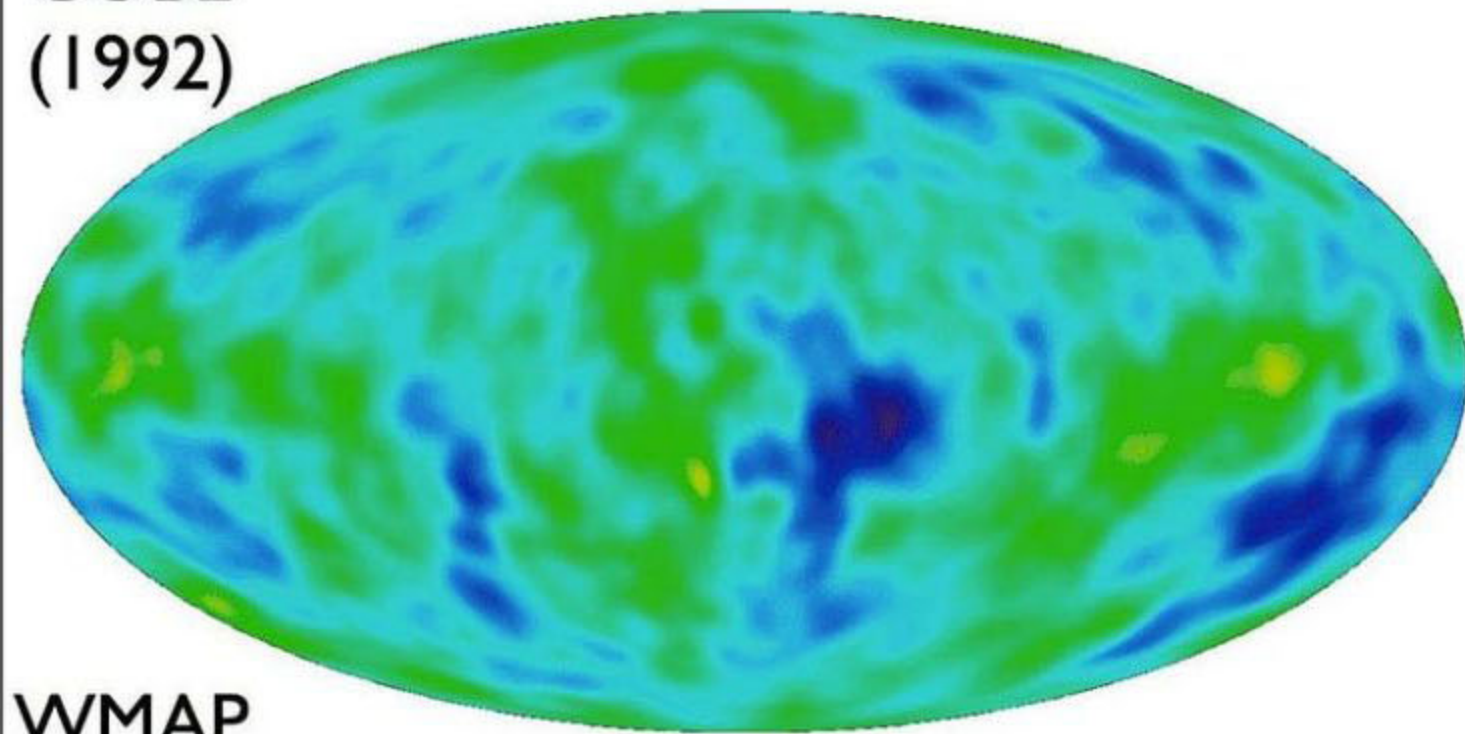
- Albert Einstein -



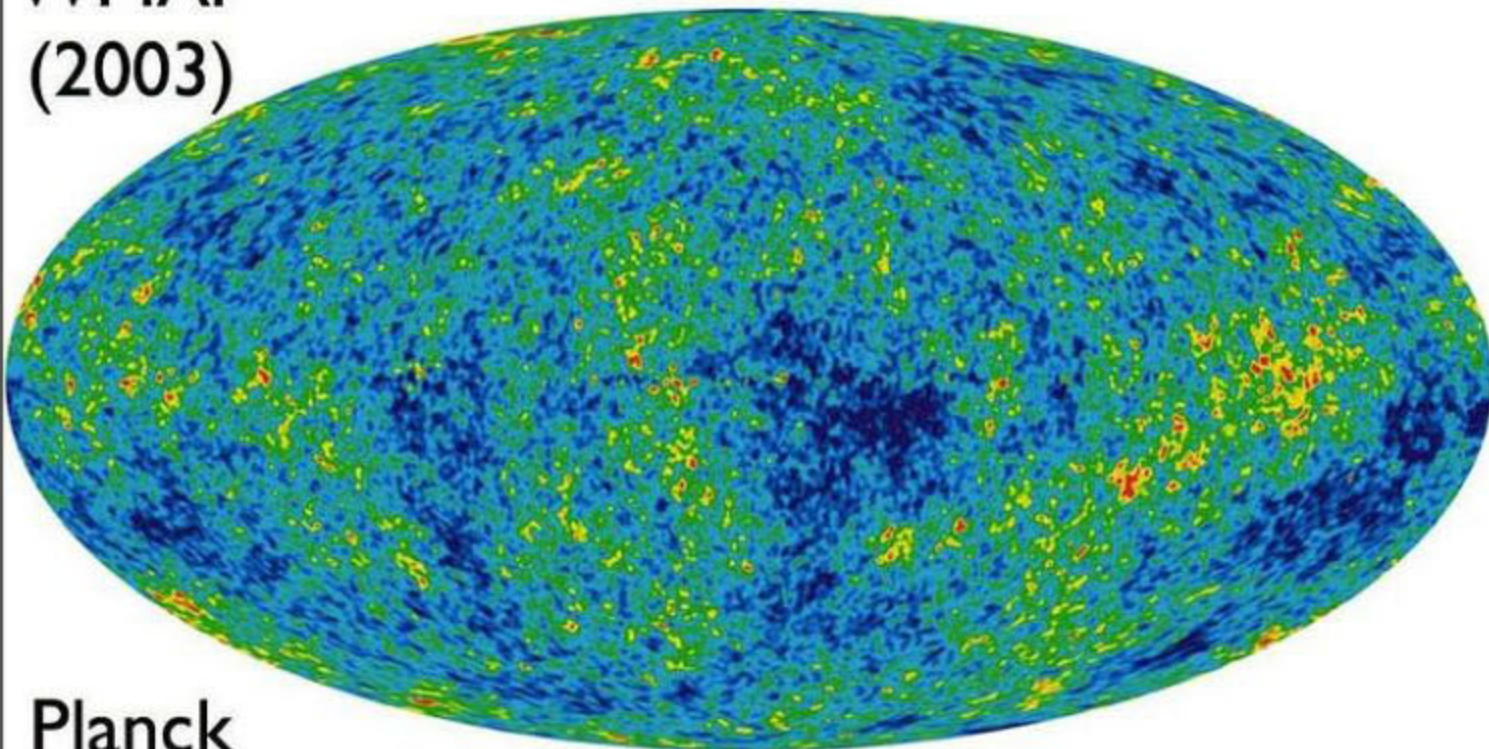
**COSMIC  
MICROWAVE  
BACKGROUND  
RADIATION**

PROBE CMB TEMPS OF UNIVERSE

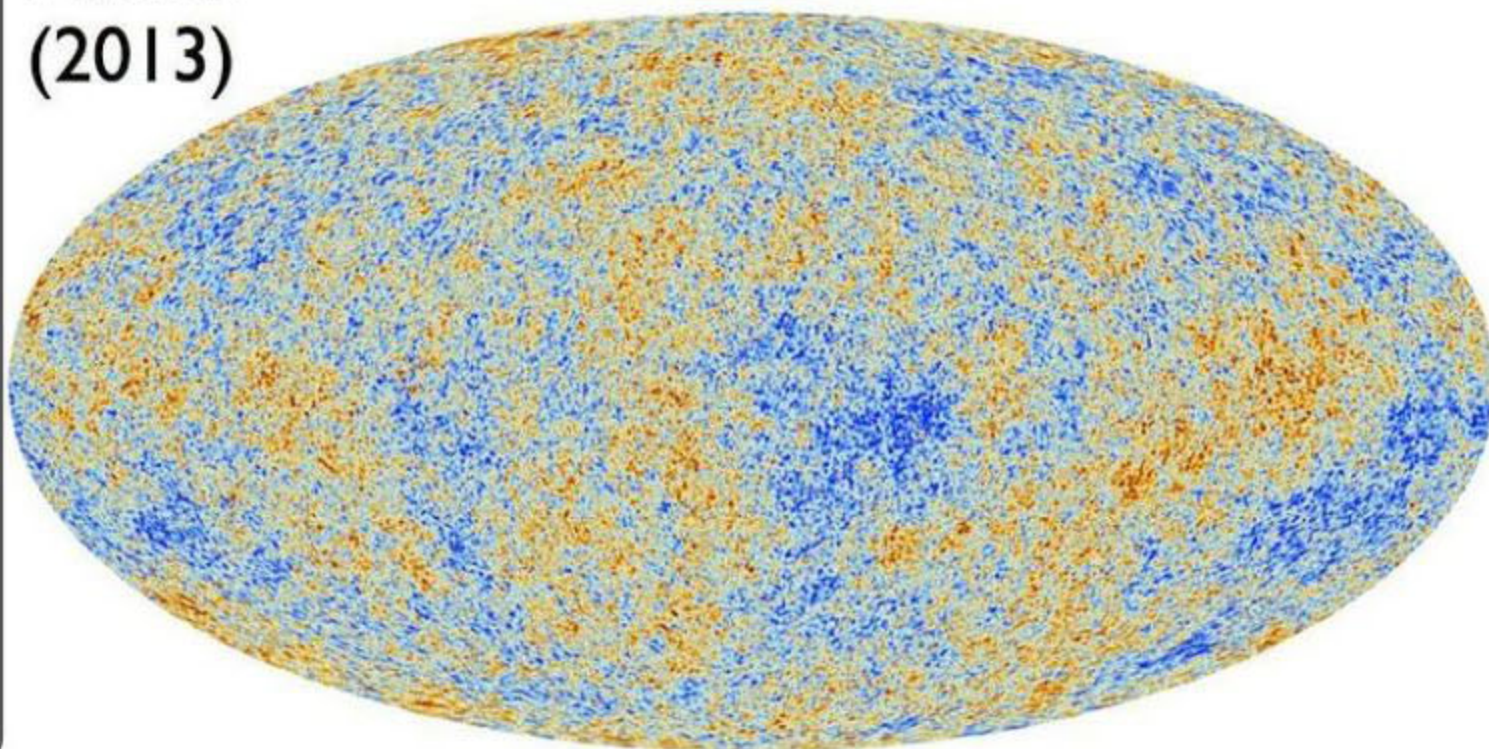
COBE  
(1992)



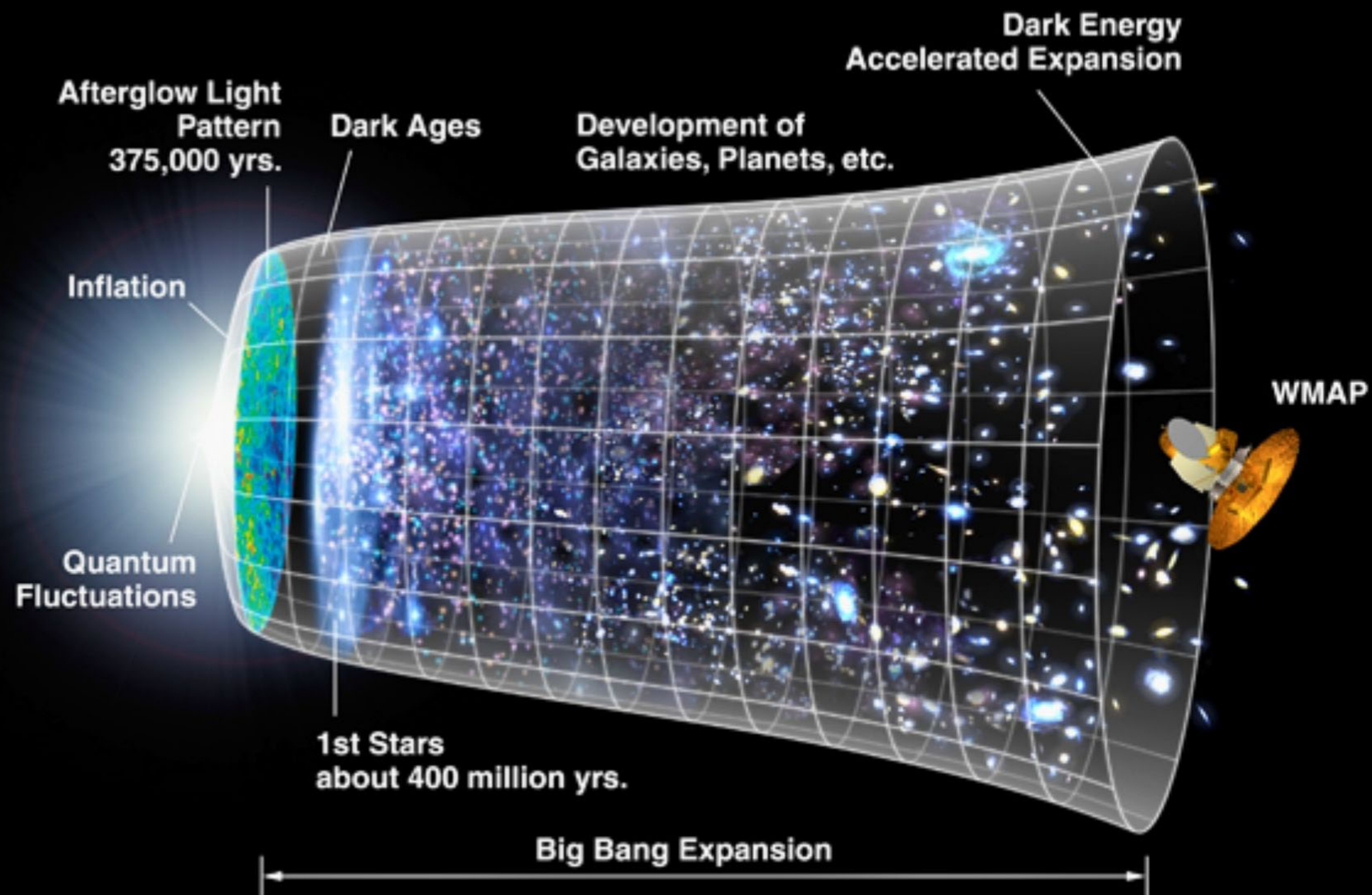
WMAP  
(2003)



Planck  
(2013)



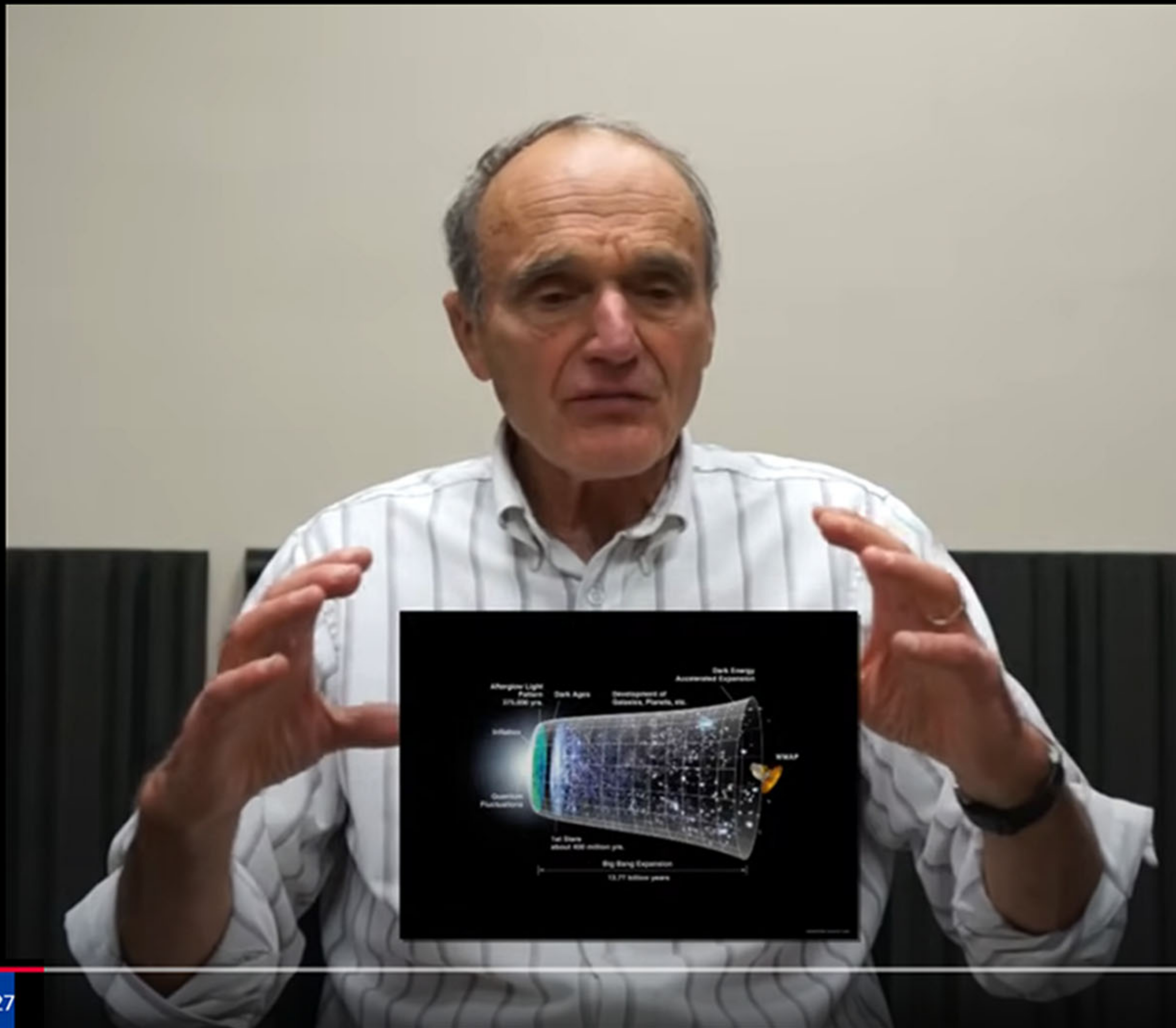
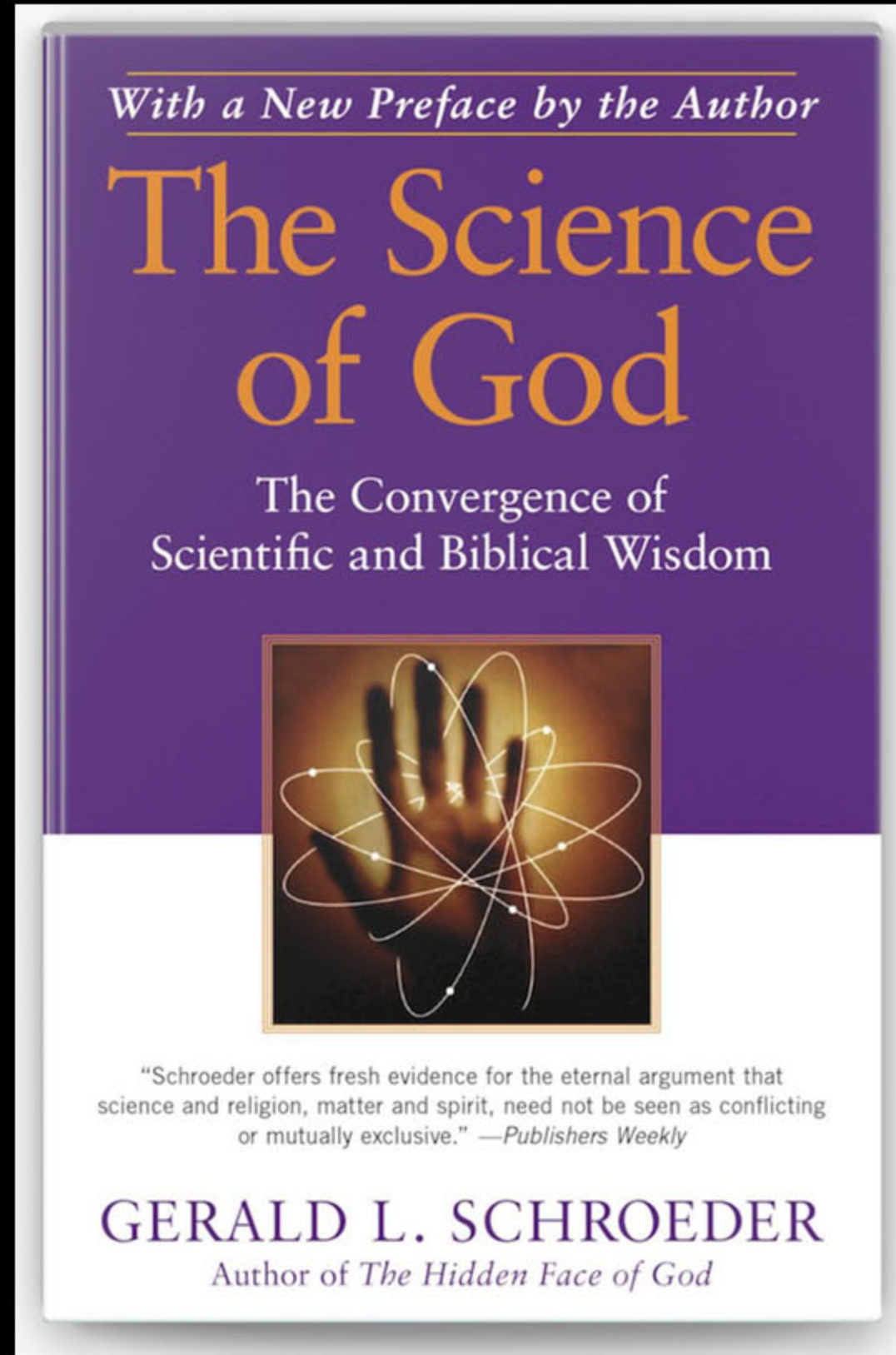
**WHAT DOES THIS MEAN?**



# Dr. Gerald L. Schroeder PhD

Massachusetts Institute of Technology  
Nuclear Physics & Earth/ Planetary Physics

Share



0:59 / 5:27

YouTube

“SCIENCE HAS DISCOVERED GOD”



“THE HARD LINE ATHEIST SCIENTIST WOULD SAY....”

DR. GERALD L. SCHROEDER PhD

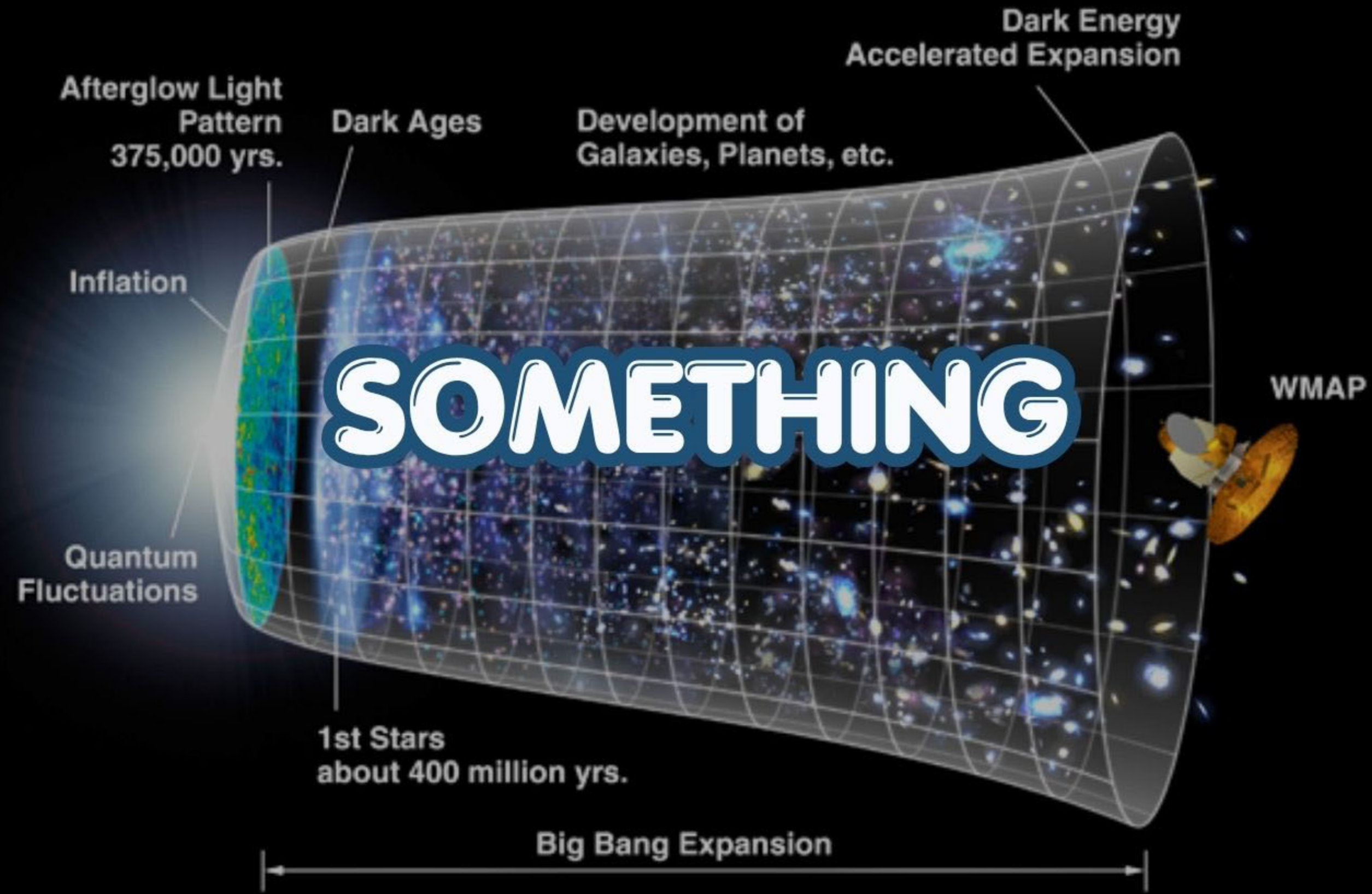
Nuclear Physics/ Earth & Planetary Physics

# 1.... this all happened in the middle of **NOTHING**

**NOTHING**

**NOTHING**

**NOTHING**



**NOTHING**

**NOTHING**

**NOTHING**

**SOMETHING**

# 2. NOTHING DOES NOT EXIST IN THE UNIVERSE

(not in TIME or SPACE)

**NOTHING**

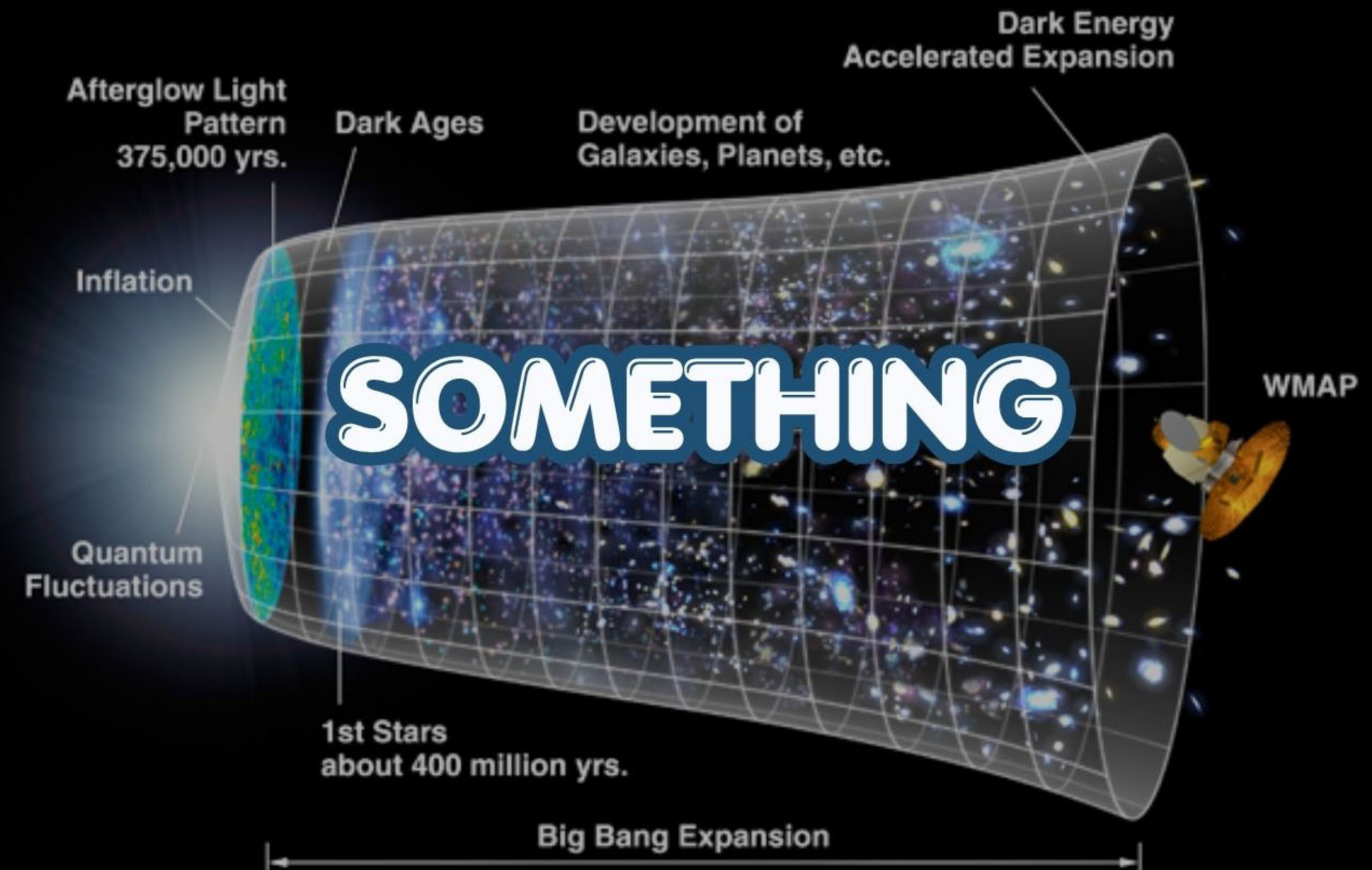
**NOTHING**

**NOTHING**

**NOTHING**

**NOTHING**

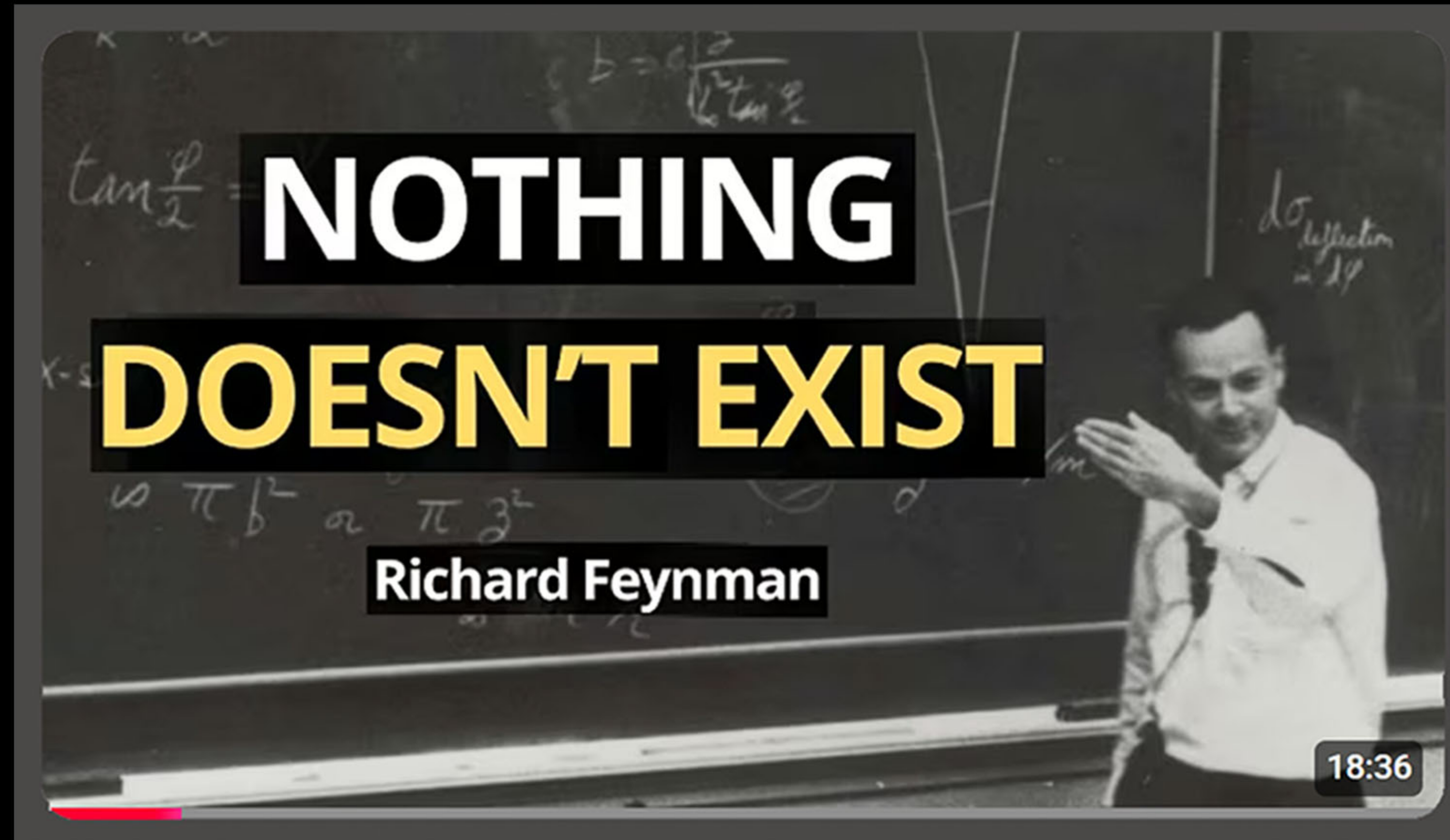
**NOTHING**



# NOTHING DOES NOT EXIST IN THE UNIVERSE

(not in TIME or SPACE)

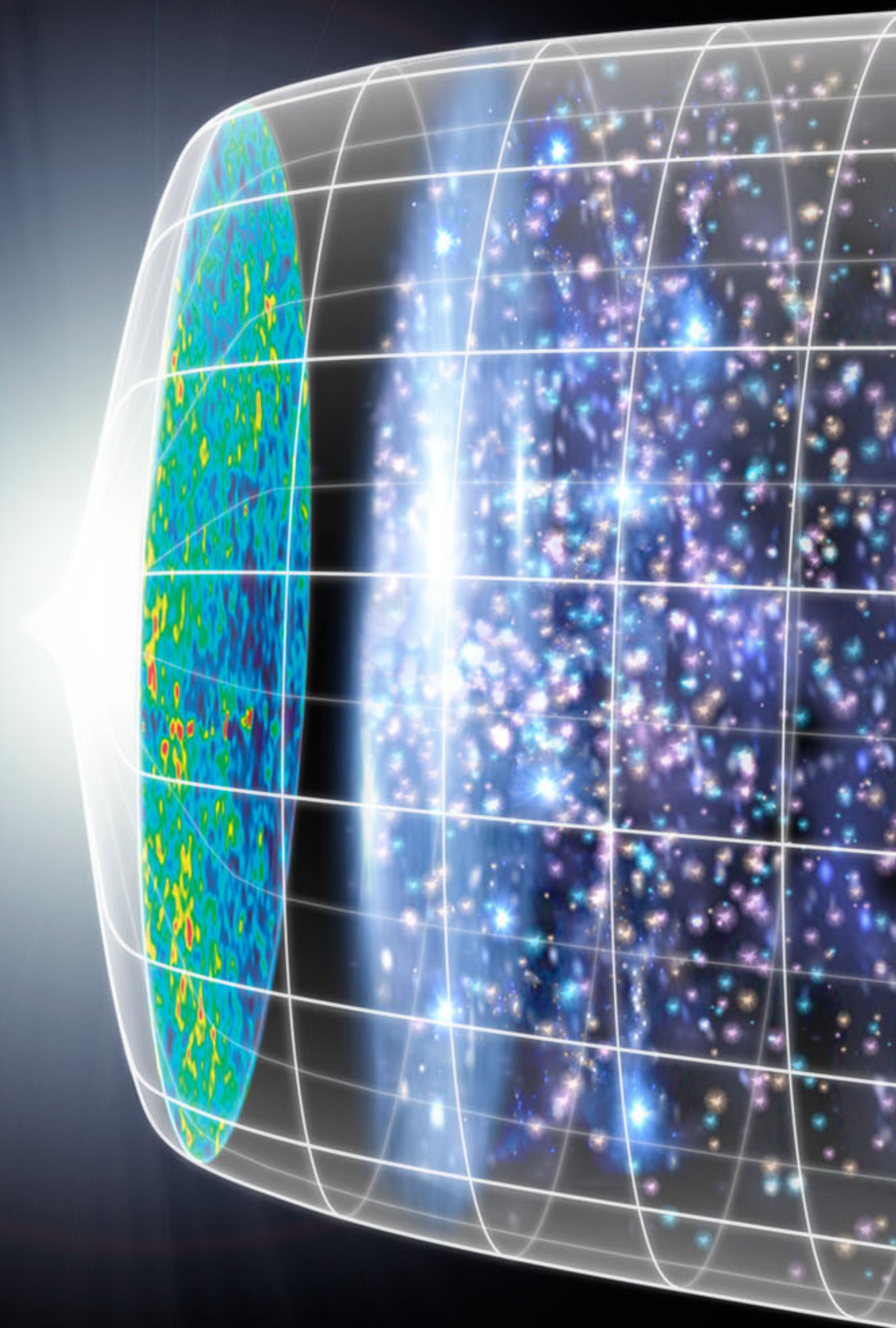
NOBEL LAUREAT - PHYSICS  
Richard Feynman PhD



**WHAT IS NOTHING?**

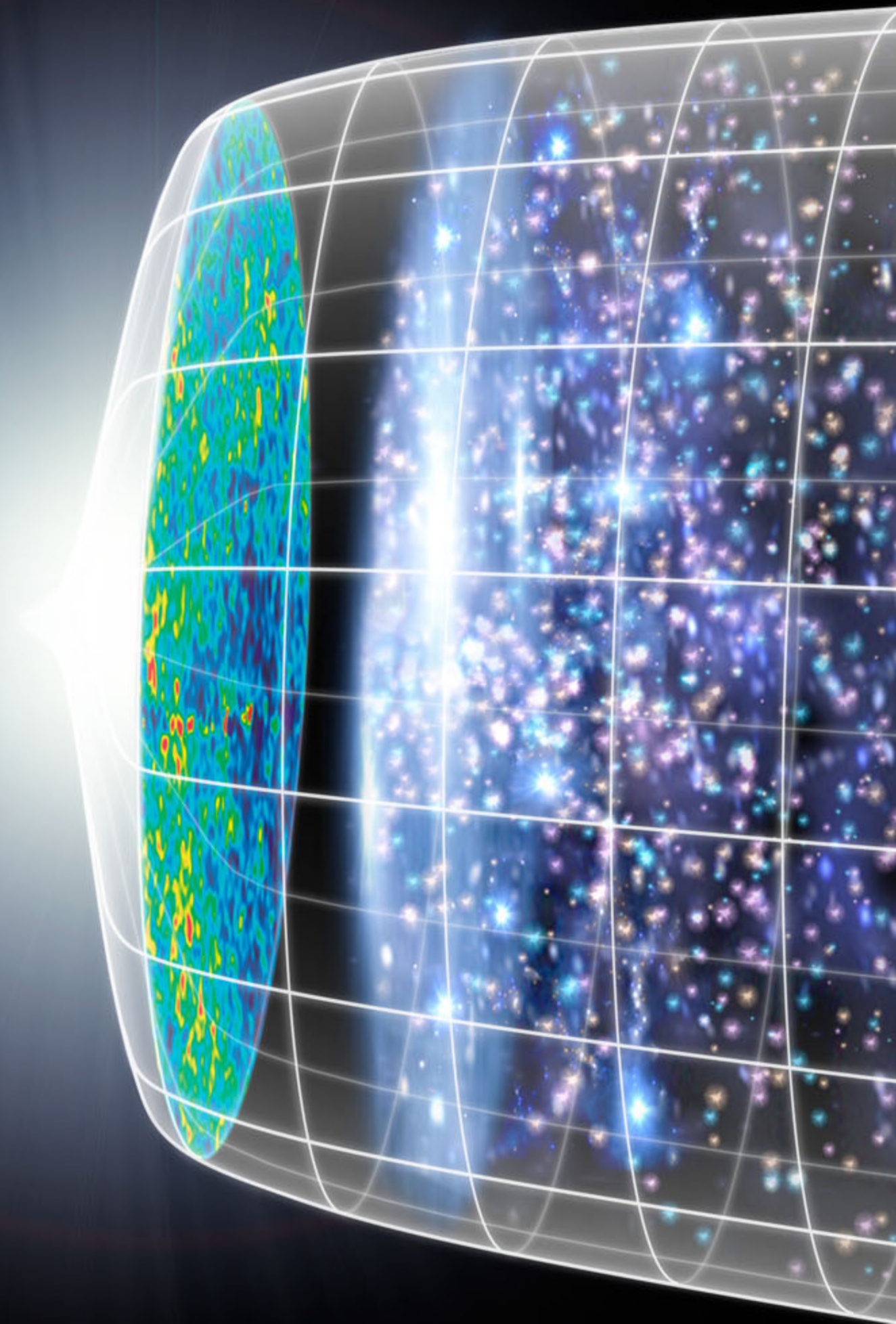
origin of **UNIVERSE**(noun)  
time / space / matter / energy

from one point..... in the middle of **NOTHING**



.....Why is this significant?

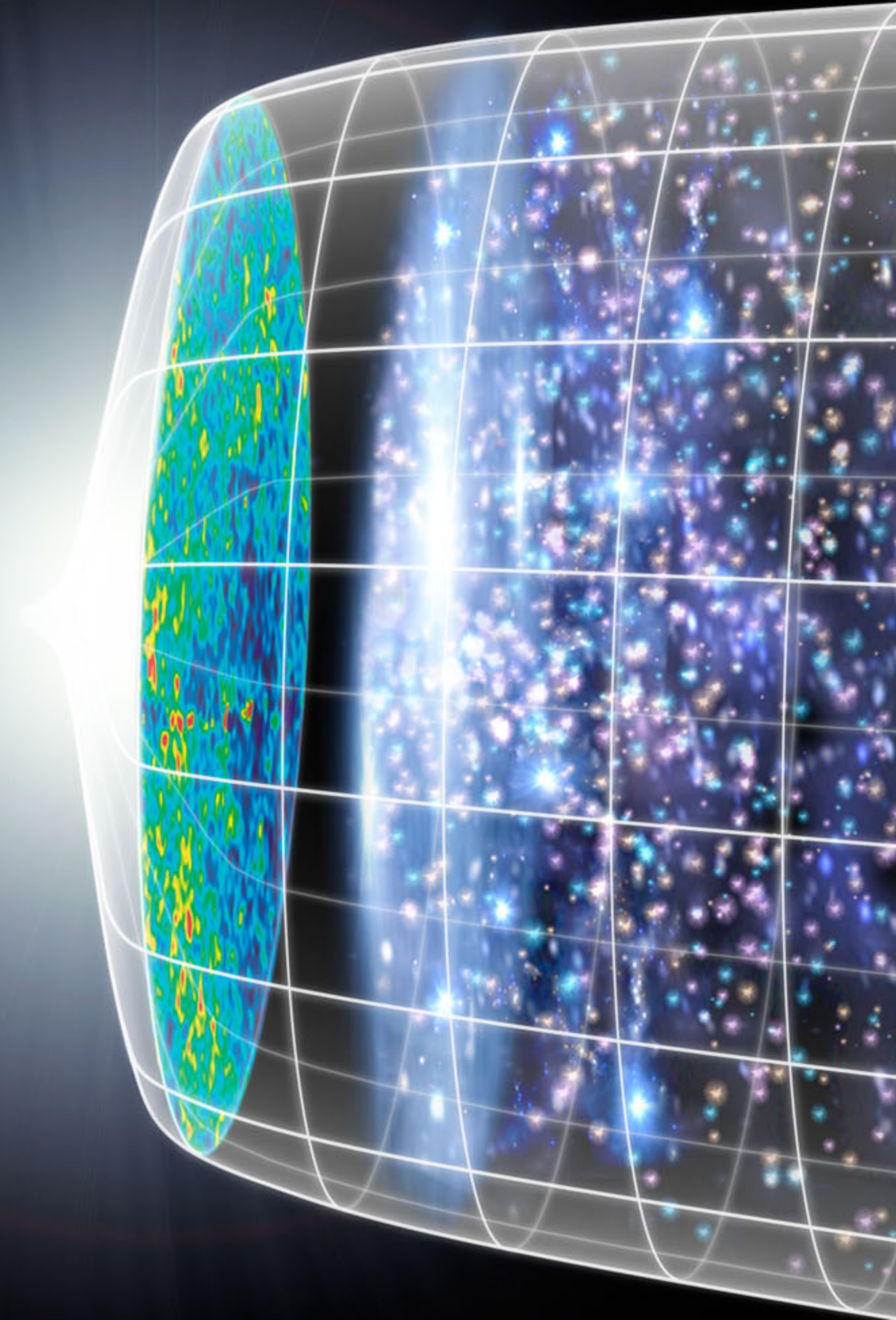
NOTHING



“MATTER CANNOT BE CREATED (or destroyed)”

LAW of CONSERVATION of  
MATTER/ ENERGY

MATTER FROM....NOTHING  
“SUPERNATURAL”



"MATTER/ENERGY CANNOT BE CREATED"

LAW of CONSERVATION of  
MATTER/ ENERGY



THERE SHOULD BE NO MATTER/ENERGY

"MATTER/ENERGY CANNOT BE CREATED"

LAW of CONSERVATION of  
MATTER/ ENERGY

THERE SHOULD BE

NOTHING

No Sound, No Light, No Heat

"MATTER/ENERGY CANNOT BE CREATED"

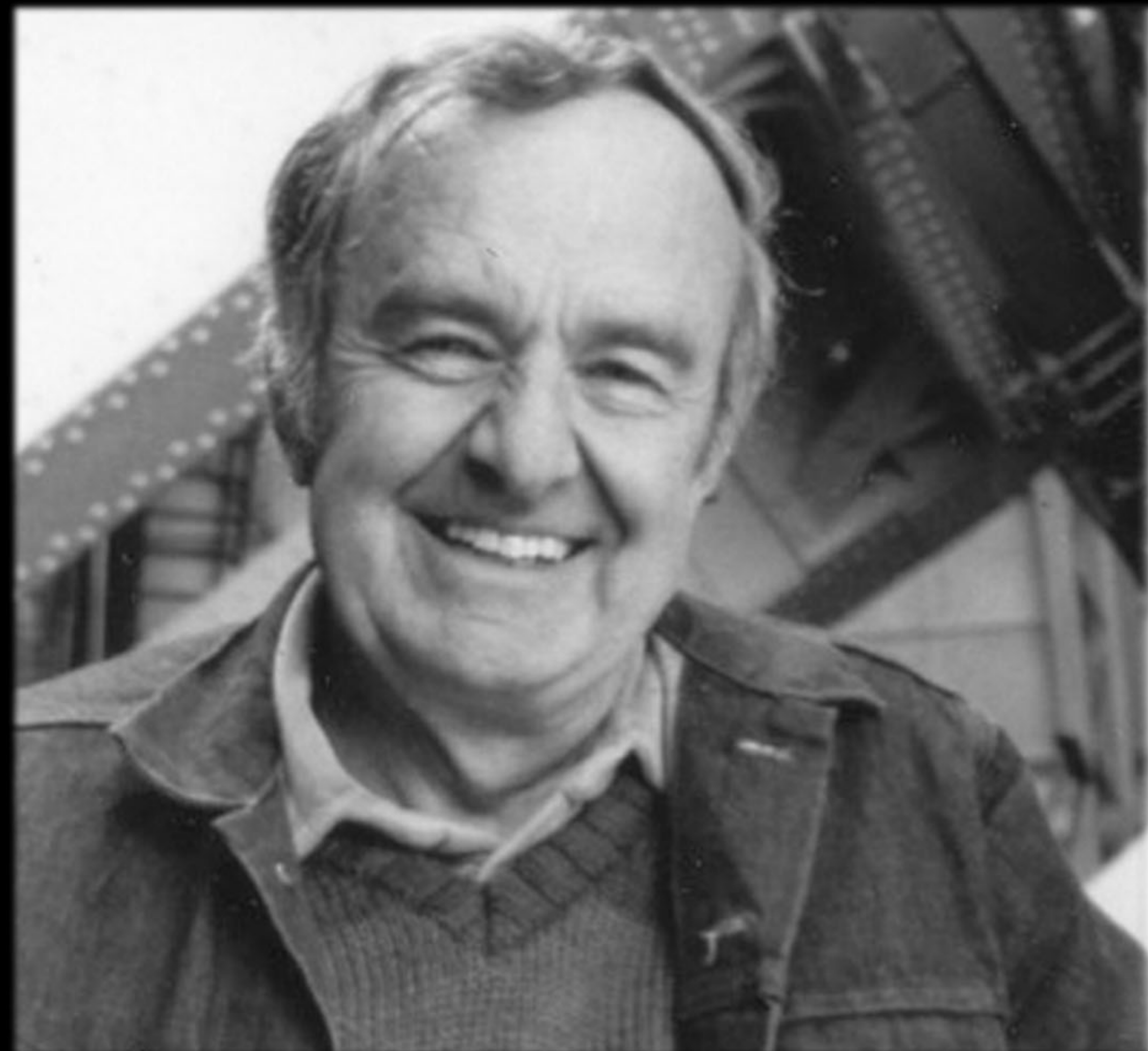
LAW of CONSERVATION of  
MATTER/ ENERGY

Violates  
"NATURAL LAW"

THERE SHOULD BE

SOMETHING

AINING  
and, No Light, No Heat



Allan Sandage-PhD Astronomy & Cosmology

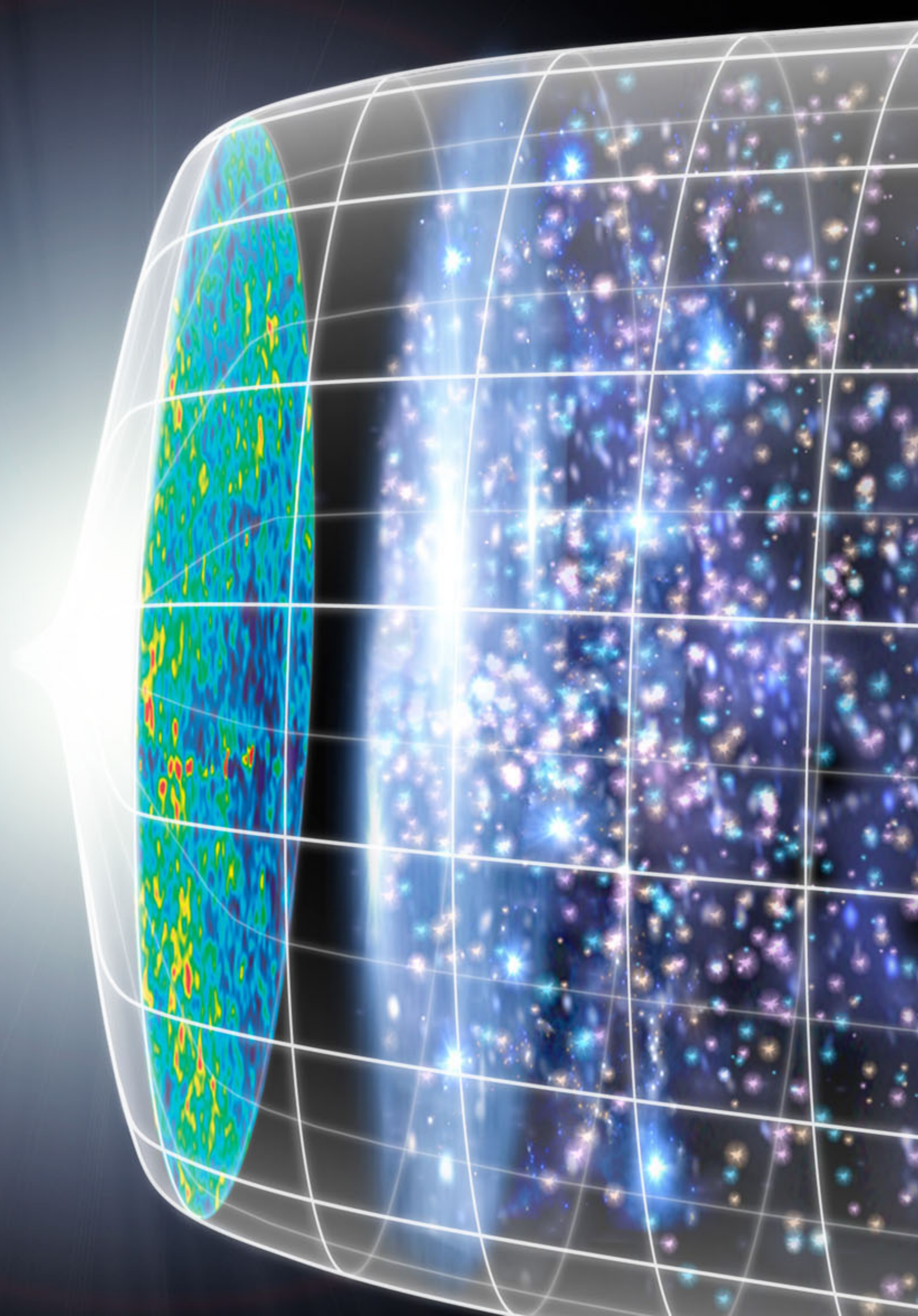
DETERMINED EXPANSION RATE OF UNIVERSE

“Here is evidence for what  
can only be described as  
a supernatural event.”

ABANDONED ATHEISM  
BECAME CHRISTIAN

FACT : MATTER CAN ONLY EXIST BY SUPERNATURAL MEANS

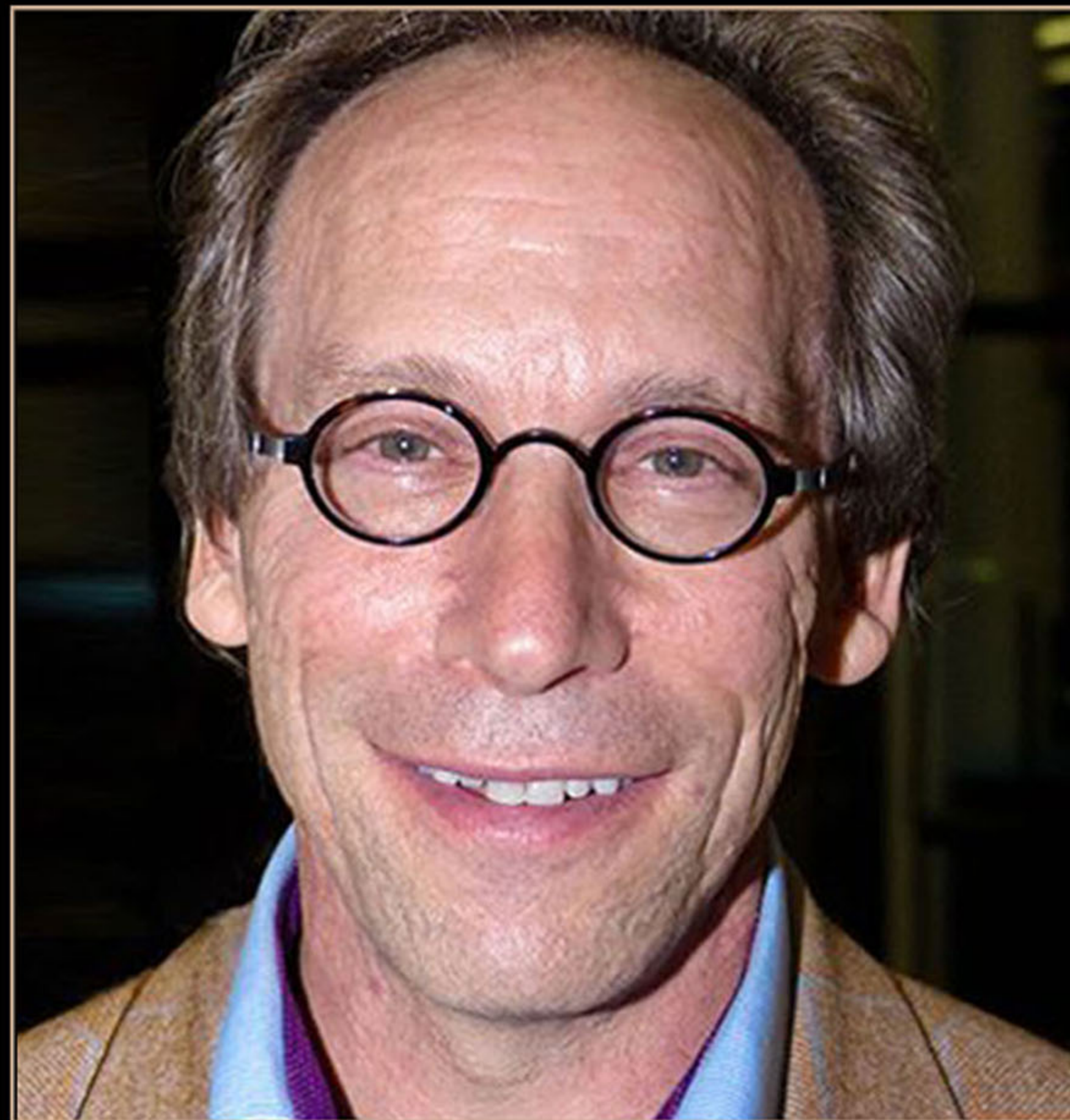
THERE MUST BE A "SUPERNATURAL" CREATOR



proofofgod.org



WHAT DO "HARD LINE ATHEIST" SCIENTISTS  
SAY ABOUT  
THIS "SUPERNATURAL CREATOR" CONCLUSION?



PhD PHYSICS  
ATHEIST

NEW YORK TIMES BESTSELLER

WHY THERE IS SOMETHING  
RATHER THAN NOTHING

A  
*UNIVERSE  
FROM  
NOTHING*

"Essential, engrossing, and brilliant."  
—IAN MCEWAN

Lawrence M. Krauss

Afterword by RICHARD DAWKINS

## NOTHING IS SOMETHING

Isaac Newton, perhaps the greatest physicist of all time, profoundly changed the way we think about the universe in many ways. But perhaps the most important contribution he made was to demonstrate the possibility that the entire universe is explicable. With his universal law of gravity, he demonstrated for the first time that even the heavens might bend to the power of natural laws. A strange, hostile, menacing, and seemingly capricious universe might be nothing of the sort.

If immutable laws governed the universe, the mythical gods of ancient Greece and Rome would have been impotent. There would have been no freedom to arbitrarily bend the world to create thorny problems for mankind. What held for Zeus would also apply to the God of Israel. How could the Sun stand still at midday if the Sun did not orbit the Earth but its motion in the sky was actually caused by the revolution of the Earth, which, if suddenly stopped, would produce forces on its surface that would destroy all human structures and humans along with them?

To summarize then: the observation that the universe is flat and that the local Newtonian gravitational energy is essentially zero today is strongly suggestive that our universe arose through a process like that of inflation, a process whereby the energy of empty space (nothing) gets converted into the energy of something, during a time when the universe is driven closer and closer to being essentially exactly flat on all observable scales.

While inflation demonstrates how empty space endowed with energy can effectively create everything we see, along with an unbelievably large and flat universe, it would be disingenuous to suggest that empty space endowed with energy, which drives inflation, is really *nothing*. In this picture one must assume that space exists and can store energy, and one uses the laws of physics like general relativity to calculate the consequences. So if we stopped here, one might be justified in claiming that modern science is a long way from really addressing how to get something from nothing. This is just the first step, however. As we expand our understanding, we will next see that inflation can represent simply the tip of a cosmic iceberg of nothingness.

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If immutable laws governed the universe, the mythical gods of ancient Greece and Rome would have been impotent. There would have been no freedom to arbitrarily bend the world to create thorny problems for mankind. What held for Zeus would also apply to the God of Israel. How could the Sun stand still at midday if the Sun did not orbit the Earth but its motion in the sky was actually caused by the revolution of the Earth, which, if suddenly stopped, would produce forces on its surface that would destroy all human structures and humans along with them?

Of course, supernatural acts are what miracles are all about. They are, after all, precisely those things that circumvent the laws of nature. A god who can create the laws of nature can presumably also circumvent them at will. Although why they would have been circumvented so liberally thousands of years

## Q & A WITH THE AUTHOR

### 1. What do you really mean by “nothing”?

As I describe in the book, I believe it is most useful to base our definitions on empirically discovered realities rather than abstract philosophical precepts. For me, independent of the question of “non-existence,” which takes one off on lots of potentially deep philosophical issues but rather impotent physics ideas, the really seemingly miraculous aspect of our universe, which I also believe has inspired much of the debate about this topic over the centuries, is how all of the stuff we see could have arisen from a universe in which that stuff did not already exist. It seems at the very least to violate the conservation of energy, and more significantly, common sense. But one of the great things about science that I want to convey is that common sense is not necessarily a good guide to understanding nature at the forefront. Our common sense should derive from the universe, rather than vice versa. And the remarkable non-miraculous miracle is that combining quantum mechanics with gravity allows stuff to arise from no-stuff.

Now, that state of no-stuff may not be “nothing” in a classical sense, but it is a remarkable transformation nevertheless. So, the first form of “nothing” is just empty space. But one is perfectly reasonable in questioning whether this is really “nothing”

## CHAPTER 10

### NOTHING IS UNSTABLE

The existence of energy in empty space—the discovery that rocked our cosmological universe and the idea that forms the bedrock of inflation—only reinforces something about the quantum world that was already well established in the context of the kinds of laboratory experiments I have already described. Empty space is complicated. It is a boiling brew of virtual particles that pop in and out of existence in a time so short we cannot see them directly.

Virtual particles are manifestations of a basic property of quantum systems. At the heart of quantum mechanics is a rule that sometimes governs politicians or CEOs—as long as no one is watching, anything goes. Systems continue to move, if just momentarily, between all possible states, including states that would not be allowed if the system were actually being measured. These “quantum fluctuations” imply something essential about the quantum world: nothing always produces something, if only for an instant.

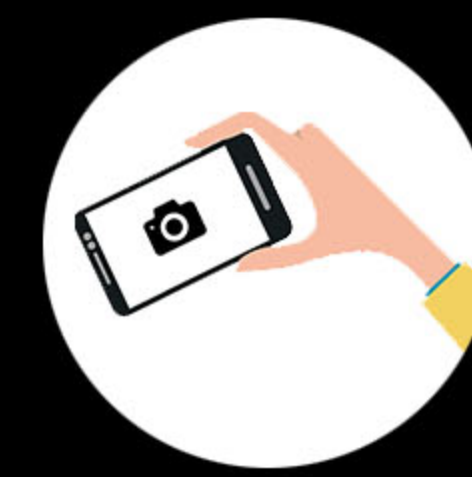
But here's the rub. The conservation of energy tells us that quantum systems can misbehave for only so long. Like embezzling stockbrokers, if the state that a system fluctuates into requires sneaking some energy from empty space, then the system has to return that energy in a time short enough so that no one measuring the system can detect it.

of "why" questions does indeed terminate, but as I have stressed, only at the expense of introducing a remarkable all-powerful entity for which there is simply no other evidence.

In this regard, there is another important point to stress here. The apparent logical necessity of First Cause is a real issue for any universe that has a beginning. Therefore, on the basis of logic alone one cannot rule out such a deistic view of nature. But even in this case it is vital to realize that this deity bears no logical connection to the personal deities of the world's great religions, in spite of the fact that it is often used to justify them. A deist who is compelled to search for some overarching intelligence to establish order in nature will not, in general, be driven to the personal God of the scriptures by the same logic.

These issues have been debated and discussed for millennia, by brilliant and not-so-brilliant minds, many of the latter making their current living by debating them. We can return to these issues now because we are simply better informed by our knowledge of the nature of physical reality.

# THE SCIENTIFIC PROOF of GOD



**PREMISE 1: MATTER IS ONLY CREATED BY SUPERNATURAL MEANS**

Circumvented Natural Law  
(Conservation of Matter/Energy)

**PREMISE 2: MATTER EXISTS**

(Common Observation)

**“NECESSARY” CONCLUSION:**

**MATTER WAS CREATED BY SUPERNATURAL MEANS**

You must disprove **EITHER PREMISE** to Disprove the logic proof.

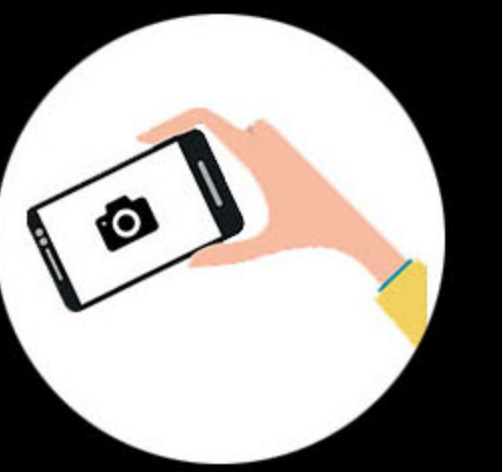
Wait a second.....

DID SCIENCE JUST PROVE

GOD (oxford definition)

EXISTS?

....YES



MODERN SCIENCE PROVES

**MATTER WAS CREATED BY SUPERNATURAL MEANS**

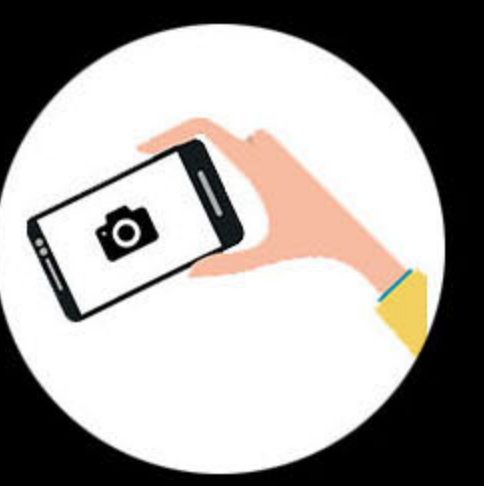
VS

GOD  
DEFINITION

**SPIRITUAL BEING THAT IS BELIEVED TO HAVE CREATED  
THE UNIVERSE**

OXFORD DICTIONARY

....**BUT IS IT REALLY PROOF?**.....Yes! (even the "most ardent atheiests" agree)

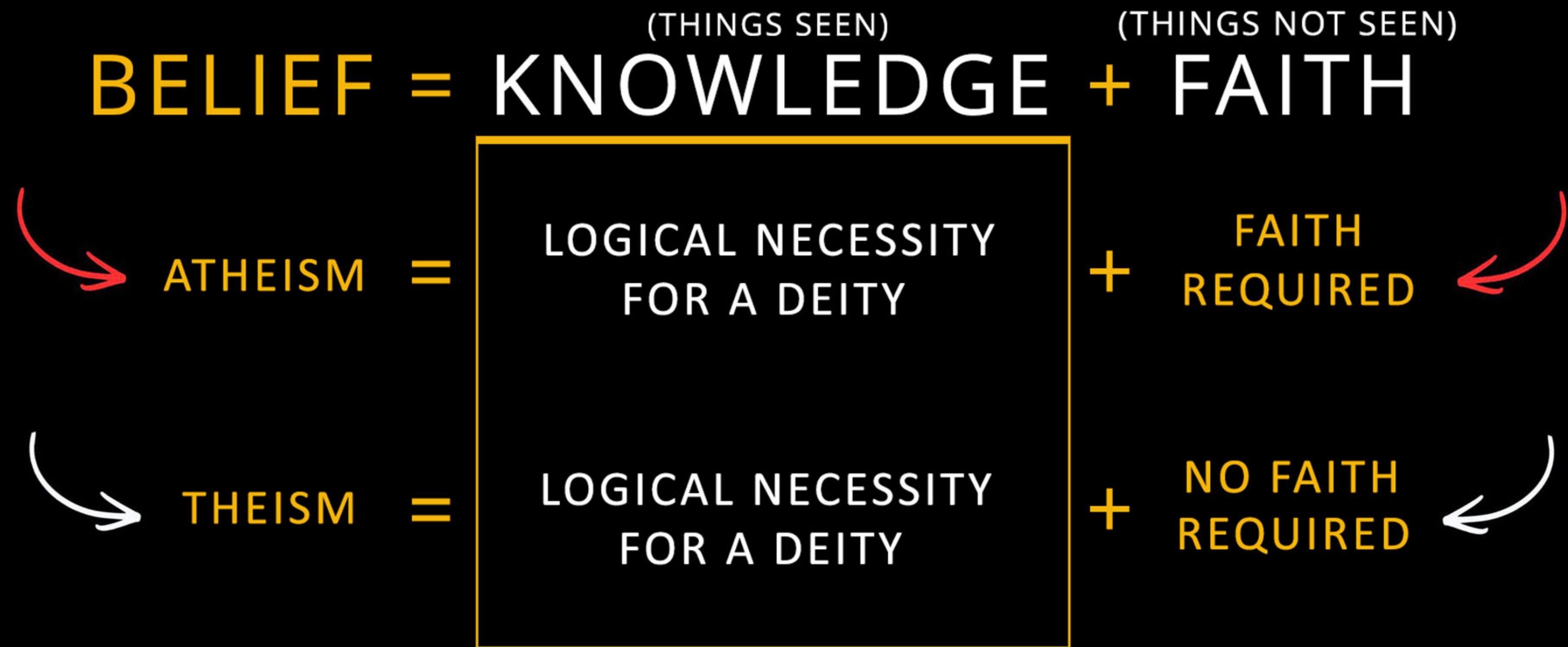
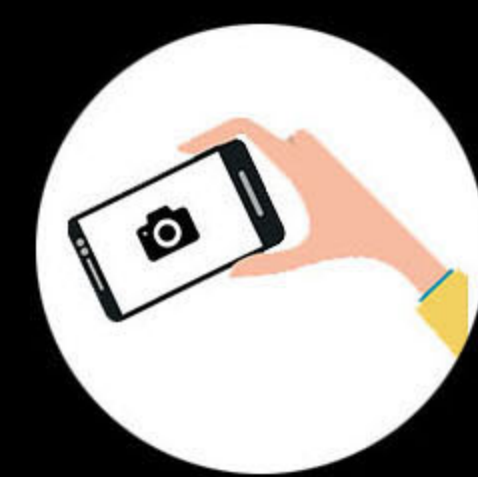


“The apparent logical **“NECESSITY”**.....

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“A Universe From Nothing”  
DR. Lawrence Krauss PhD

# NOW PICK YOUR BELIEF....RATIONALLY



.....the **PROOF** is COMPLETE

but wait.....**THERE'S MORE**

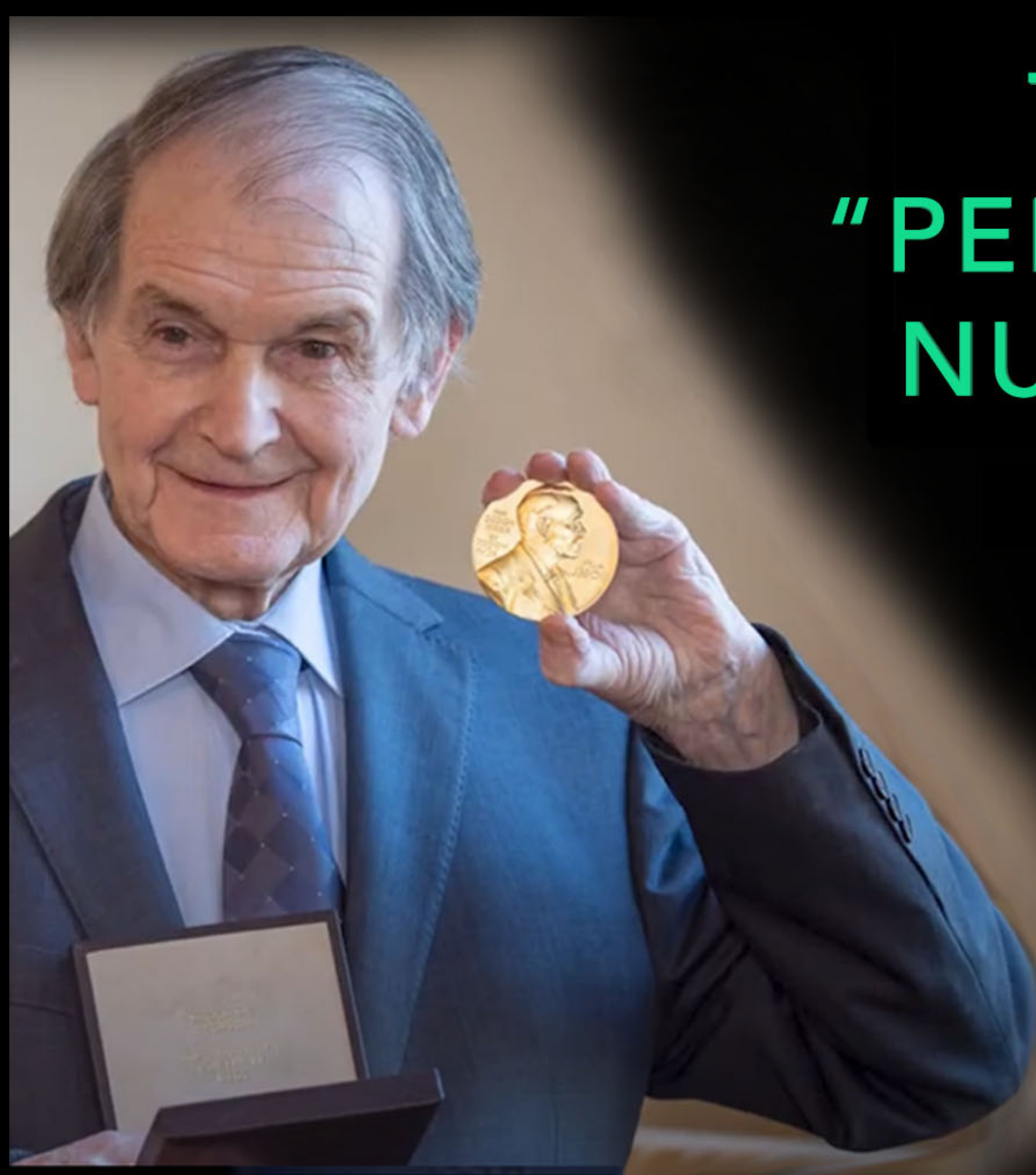
IN ADDITION TO THE SCIENTIFIC PROOF OF A "CREATOR"

Cosmology  
Physics  
Chemistry  
Biology

Probabalistic science points to an "INTELLIGENT DESIGNER"

A Thinking Mind  
(superintelligence)

ROGER PENROSE  
2020 NOBEL PRIZE (PHYSICS)

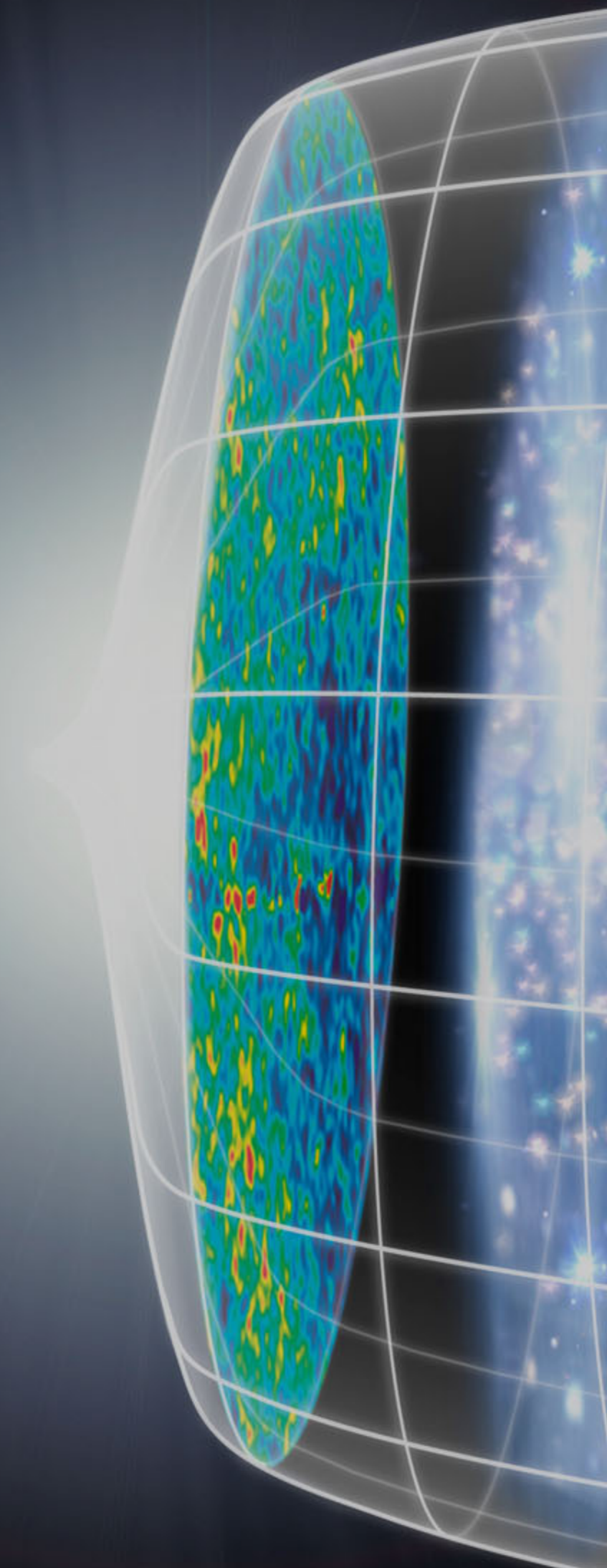


THE  
"PENROSE  
NUMBER"

1:10<sup>10</sup>

EXPONENT TOWER  
123

ODDS OF THE  
INITIAL ENTROPY CONDITIONS  
AT THE BIG BANG  
BY RANDOM CHANCE



EXONENT TOWER  
123  
10  
1:10

what is the scale difference between  $10^{123}$  compared to  $10^{10^{123}}$ ?

The difference is astronomical

- $10^{123}$ : unimaginably large - called a quadragintillion
- $10^{10^{123}}$ : incomprehensibly larger

$10^{10^{123}}$  makes a quadragintillion look effectively like zero.



**SIR FRED HOYLE - Astronomer**  
DISCOVERED STELLAR NUCLEOSYNTHESIS FROM HYDROGEN

"A common sense interpretation of the facts suggests that a superintellect has monkeyed with physics, as well as with chemistry, and biology.....

HE THEN ABANDONED ATHEISM

PHYSICS

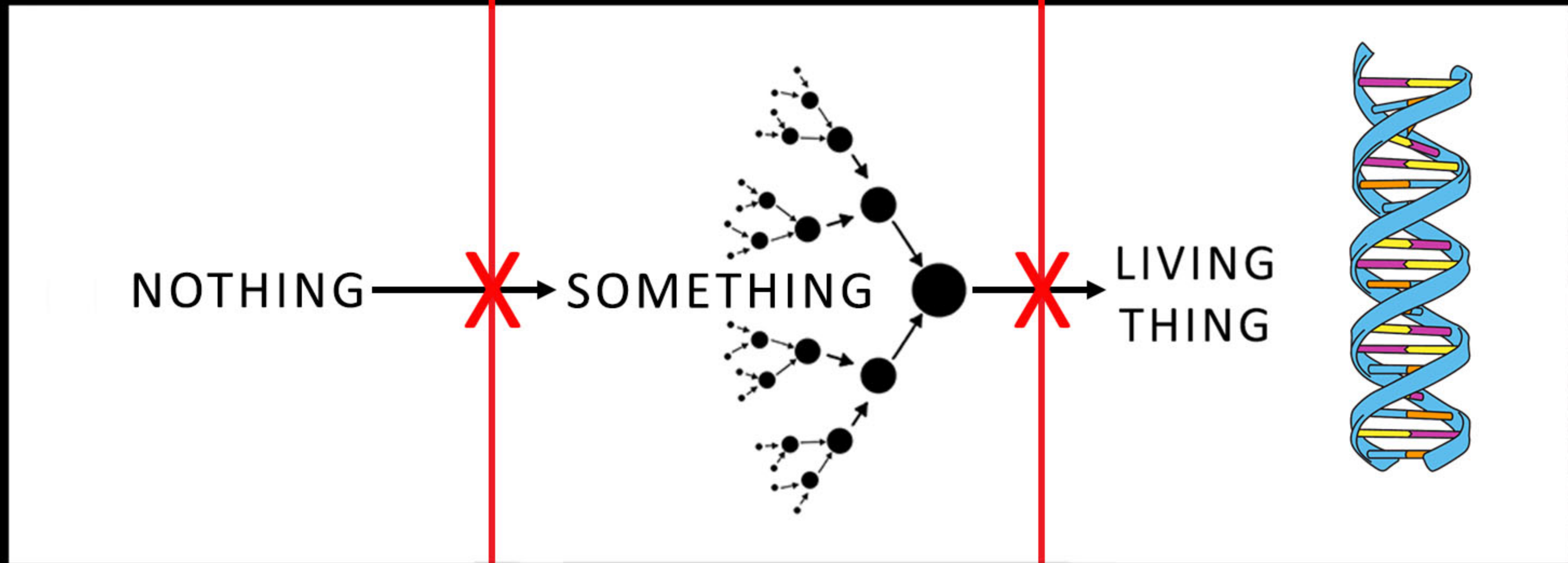
CHEMISTRY

BIOLOGY



SIR FRED HOYLE- Astronomer  
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"A common sense interpretation of the facts suggests that a superintellect has monkeyed with physics, as well as with chemistry, and biology....."



Violates Law of Conservation of Matter/Energy

Violates Law of Biogenesis

# WITHOUT FINE TUNING

Strong Nuclear Force, Electromagnetic Force



SIR FRED HOYLE- Astronomer  
DISCOVERED STELLAR NUCLEOSYNTHESIS FROM HYDROGEN

"A common sense interpretation of the facts suggests that a superintellect has monkeyed with physics, as well as with chemistry, and biology....."

NO CHEMISTRY

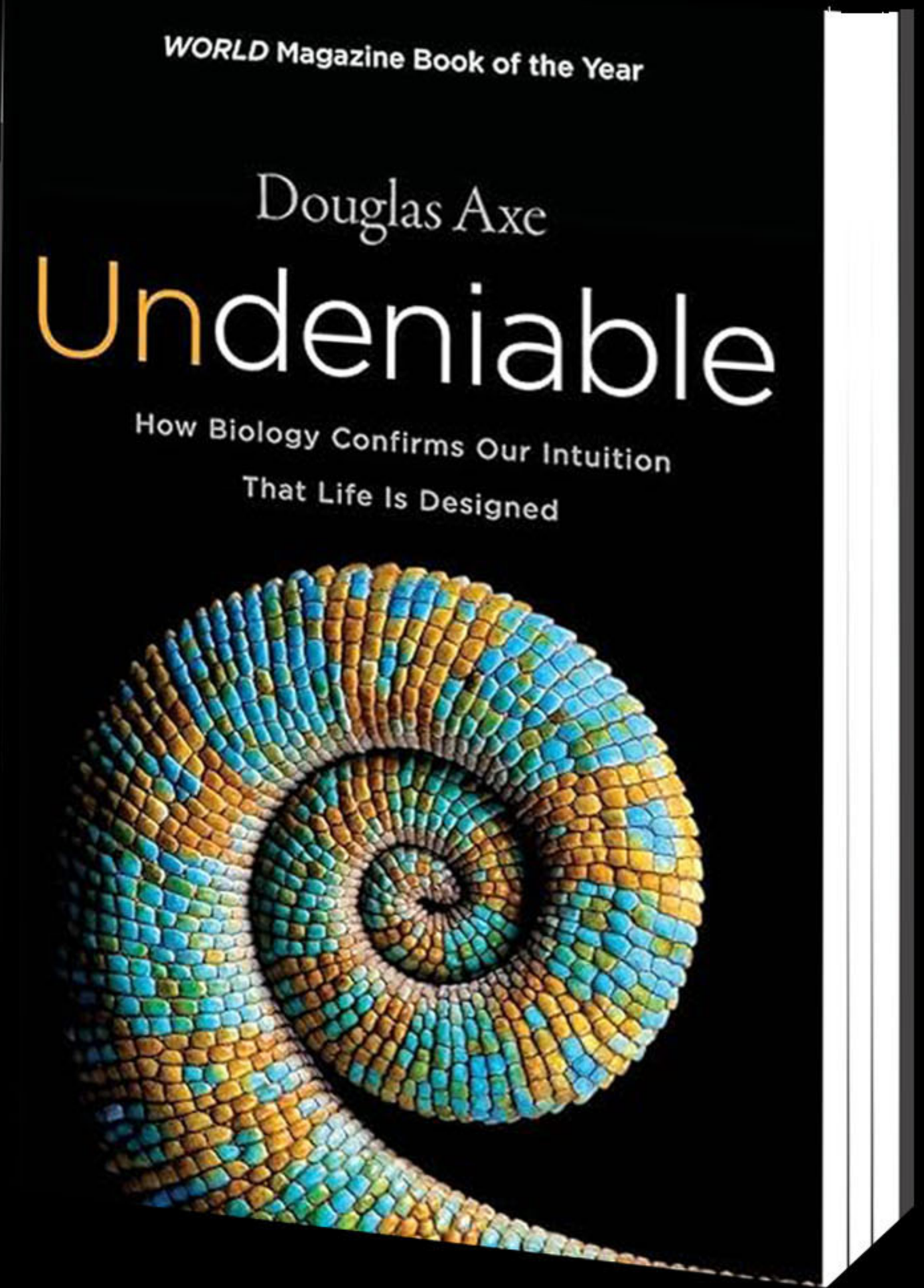
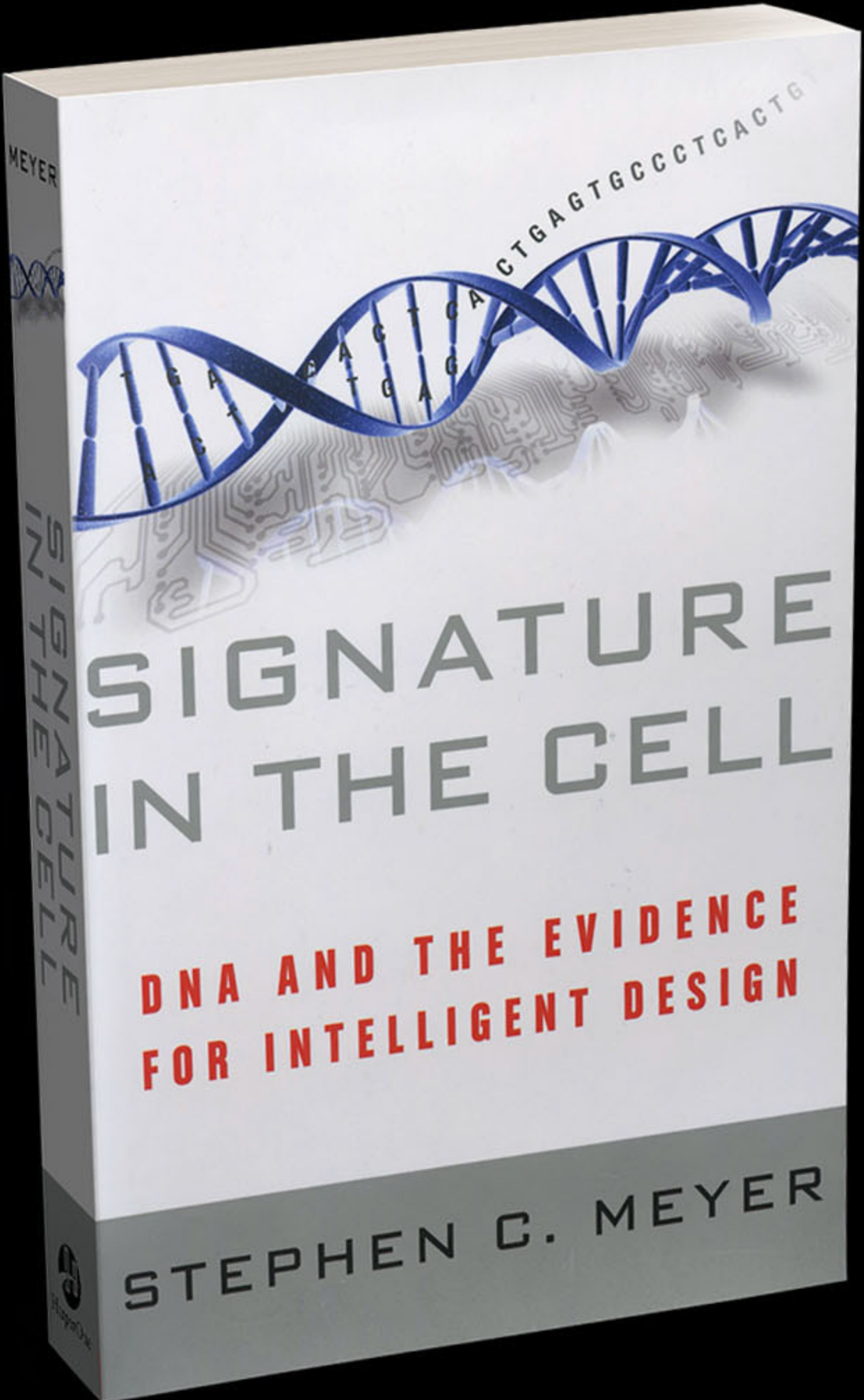
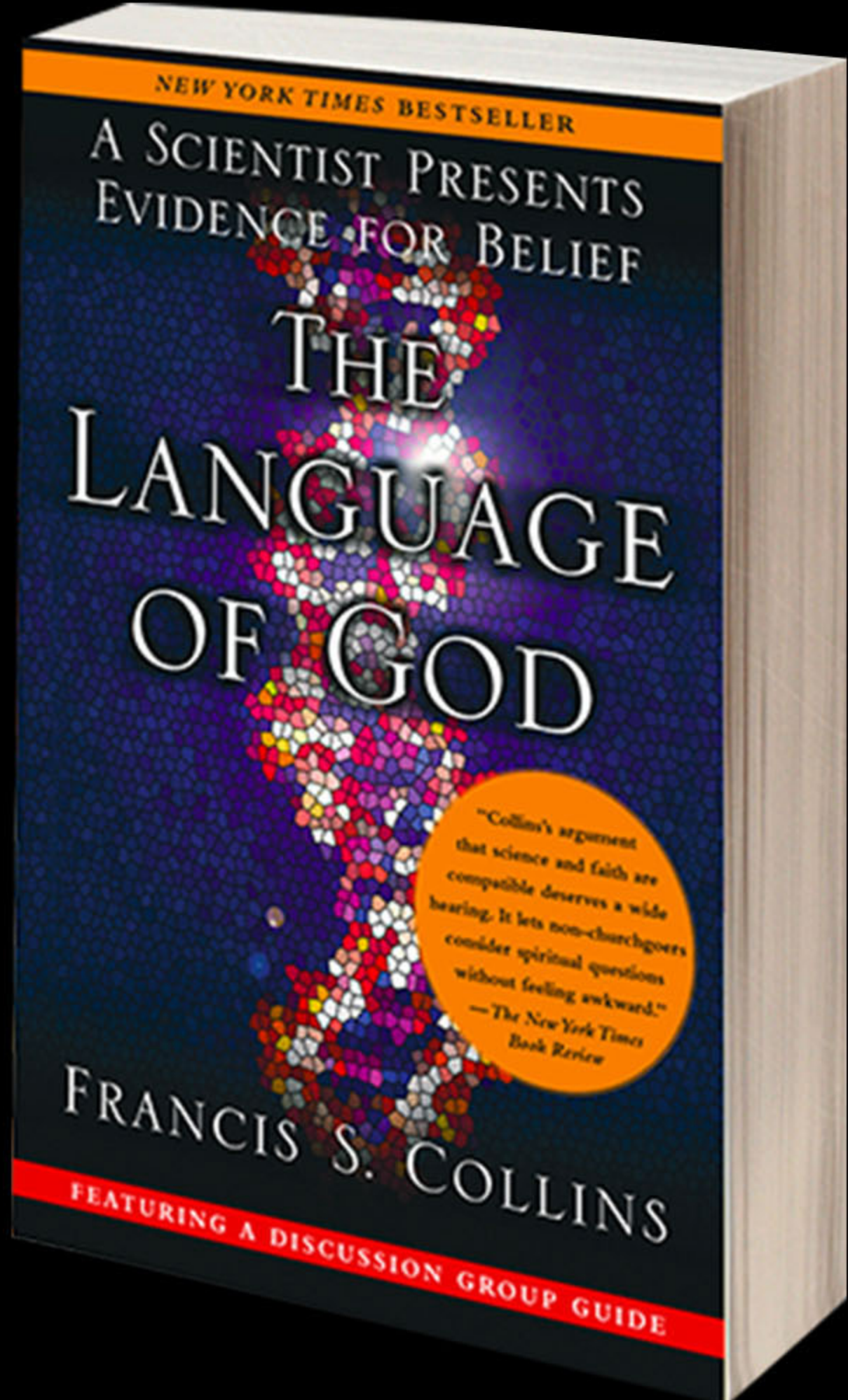
NO STARS/ HEAT  
NO WATER  
NO LIFE

NO PERIODIC TABLE

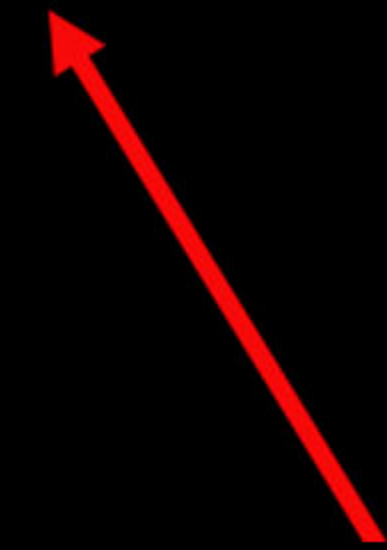
ALL MATTER  
WOULD BE  
HYDROGEN

1 1A 1A 1 H Hydrogen 1.008	2 2A 2A 4 Li Lithium 6.941	3 3A 3A 9 Be Beryllium 9.012	4 4A 4A 12 Na Sodium 22.990	5 5A 5A 24 Mg Magnesium 24.305	6 6A 6A 39 K Potassium 39.098	7 7A 7A 40 Ca Calcium 40.078	8 8A 8A 44 Sc Scandium 44.956	9 9A 9A 48 Ti Titanium 47.88	10 10A 10A 50 V Vanadium 50.942	11 11A 11A 52 Cr Chromium 51.996	12 12A 12A 55 Mn Manganese 54.938	13 13A 13A 58 Fe Iron 55.845	14 14A 14A 63 Cu Copper 63.546	15 15A 15A 65 Zn Zinc 65.38	16 16A 16A 69 Ga Gallium 69.723	17 17A 17A 72 Ge Germanium 72.631	18 18A 18A 75 As Arsenic 74.922	19 19A 19A 78 Se Selenium 78.971	20 20A 20A 79 Br Bromine 79.904	21 21A 21A 83 Kr Krypton 83.798	22 22A 22A 86 Xe Xenon 131.29	23 23A 23A 89 Rn Radon 222	24 24A 24A 90 Fr Francium 223	25 25A 25A 91 Ra Radium 226	26 26A 26A 92-103 Lanthanide Series La Lanthanum 138.905	27 27A 27A 93 Ce Cerium 140.116	28 28A 28A 94 Pr Praseodymium 140.908	29 29A 29A 95 Nd Neodymium 144.242	30 30A 30A 96 Pm Promethium 144.913	31 31A 31A 97 Sm Samarium 150.36	32 32A 32A 98 Eu Europium 151.964	33 33A 33A 99 Gd Gadolinium 157.25	34 34A 34A 100 Tb Terbium 158.925	35 35A 35A 101 Dy Dysprosium 162.50	36 36A 36A 102 Ho Holmium 164.930	37 37A 37A 103 Er Erbium 167.259	38 38A 38A 104 Tm Thulium 168.934	39 39A 39A 105 Yb Ytterbium 173.055	40 40A 40A 106 Lu Lutetium 174.967	41 41A 41A 107 Ac Actinium 227.033	42 42A 42A 108 Th Thorium 232.038	43 43A 43A 109 Pa Protactinium 231.036	44 44A 44A 110 U Uranium 238.029	45 45A 45A 111 Np Neptunium 237.048	46 46A 46A 112 Pu Plutonium 244.064	47 47A 47A 113 Am Americium 243.061	48 48A 48A 114 Cm Curium 247.070	49 49A 49A 115 Bk Berkelium 247.070	50 50A 50A 116 Cf Californium 251.080	51 51A 51A 117 Es Einsteinium 254	52 52A 52A 118 Fm Fermium 257.095	53 53A 53A 119 Md Mendelevium 258.1	54 54A 54A 120 No Nobelium 259.101	55 55A 55A 121 Lr Lawrencium 262
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CHEMISTRY → BIOLOGY



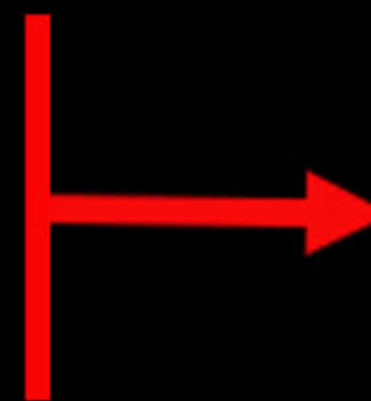
**ATHEIST** SCIENTISTS KNOW  
FINE TUNING PARAMETERS POINT TO **GOD**



EXTREMELY IMPROBABLE

# "FINE TUNED" PARAMETERS

INITIAL ORDER OF UNIVERSE (Penrose #)  
STRONG NUCLEAR FORCE (2%)  
ELECTROMAGNETIC FORCE (2%)  
AND DOZENS MORE.....



## MULTIVERSE??

(infinite universes)

WHY IS MATTER SO  
"FINE TUNED"

INTELLIGENT  
"DESIGNER"  
(of universe)



OR

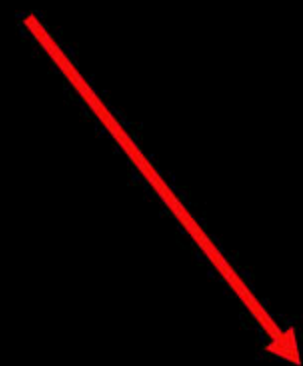


(infinite universes)

"MULTIVERSE"

PICK ONE  
USING KNOWLEDGE

FACTS SUPPORT



INTELLIGENT  
"DESIGNER"  
(of universe)



WHY IS MATTER SO  
"FINE TUNED"

OR

NO FACTS SUPPORT



(infinite universes)

"MULTIVERSE"

PICK ONE  
USING KNOWLEDGE

# THE SCIENTIFIC JOURNEY

of Dr. **Mouhab Z. Rizkallah**  
BA BS DDS MSD CAGS FACD

MATTER WAS  
CREATED BY **SUPERNATURAL MEANS**

COSMOLOGY  
PHYSICS  
CHEMISTRY  
BIOLOGY

ARE ALL **FINE TUNED**  
(by Probability)

**PROVES**  
**GOD**  
EXISTS

**EVIDENCES**  
**DESIGNER**  
EXISTS

I used to say: WHY WOULD I? 

**DO YOU "BELIEVE" IN GOD?**

 Now I say: HOW COULD I NOT?

APRIL 8, 1966

# TIME

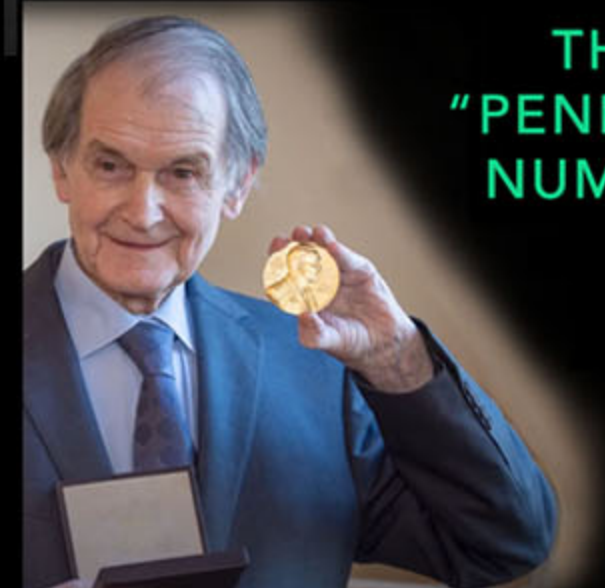
THE WEEKLY NEWSMAGAZINE

# Is God Dead?

VOL. 51

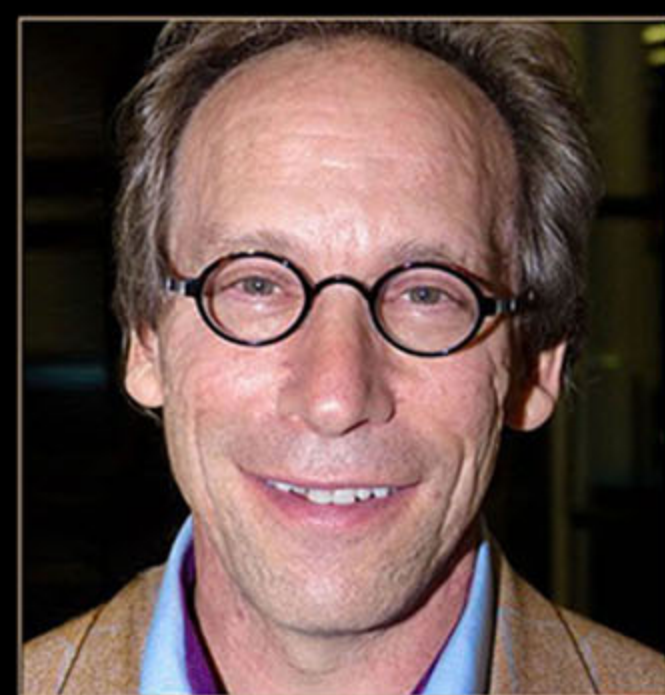


ROGER PENROSE  
2020 NOBEL PRIZE (PHYSICS)

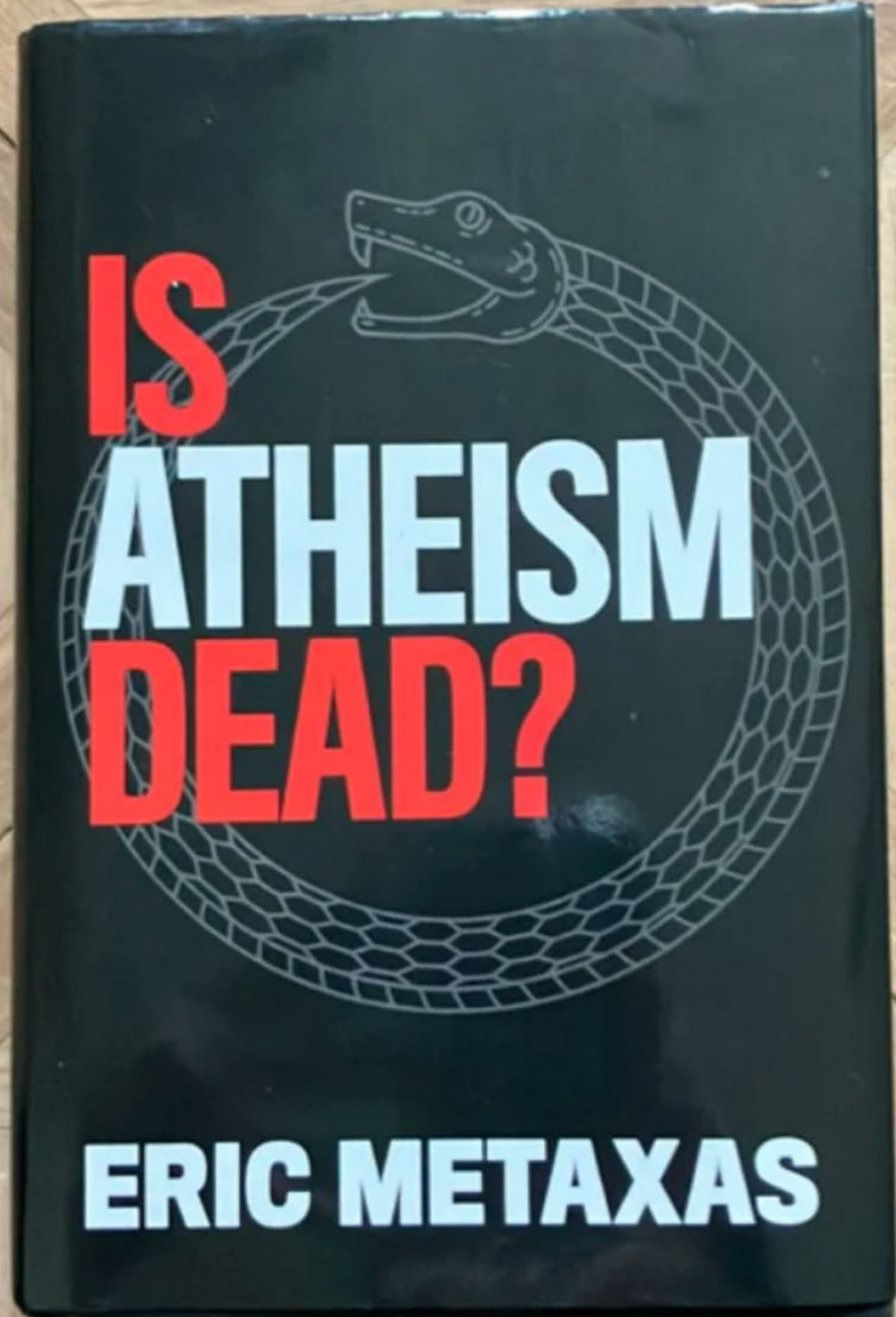
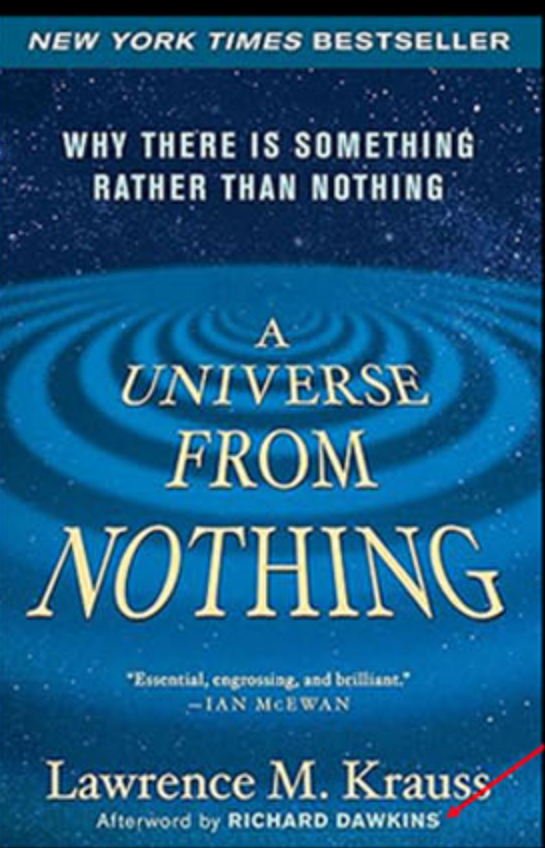


THE  
"PENROSE  
NUMBER"

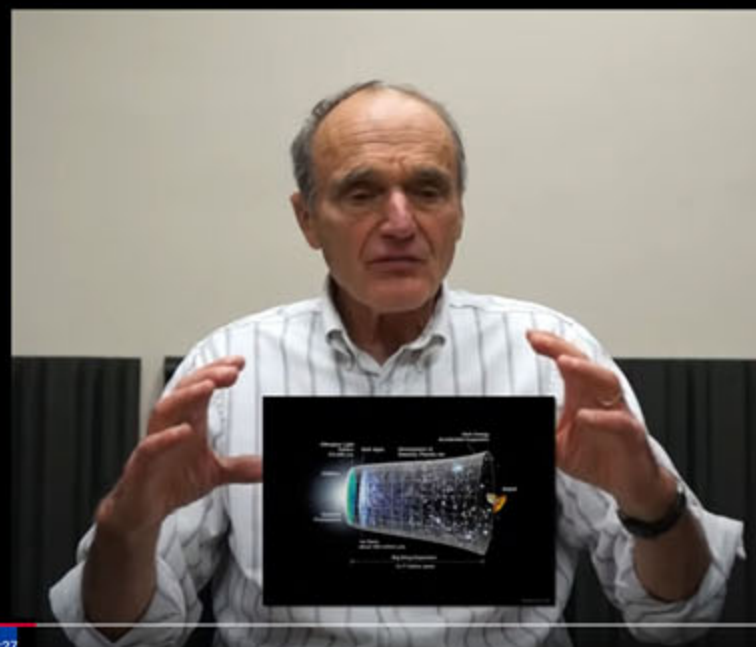
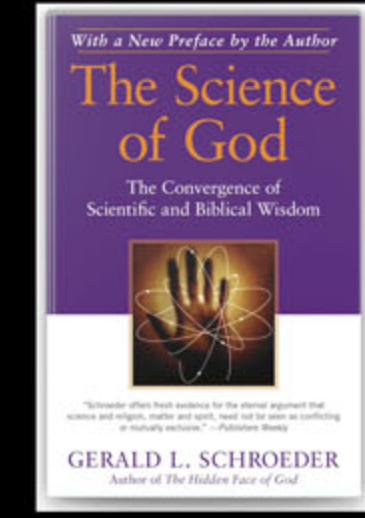
EXONENT TOWER  
123  
10  
1:10



PhD PHYSICS  
ATHEIST



Dr. Gerald L. Schroeder PhD  
Massachusetts Institute of Technology  
Nuclear Physics & Earth/ Planetary Physics



Allan Sandage-PhD Astronomy & Cosmology  
DETERMINED EXPANSION RATE OF UNIVERSE

"Here is evidence for what  
can only be described as  
a supernatural event."

ABANDONED ATHEISM  
BECAME CHRISTIAN



SIR FRED HOYLE - Astronomer  
DISCOVERED STELLAR NUCLEOSYNTHESIS FROM HYDROGEN

"A common sense interpretation of the  
facts suggests that a  
superintellect has monkeyed  
with physics, as well as with chemistry,  
and biology....."

HE THEN ABANDONED ATHEISM