

A long time ago in a galaxy far,
far away....

Andrew Gardner

BSc (Hons)
Physics.



I woz 'ere

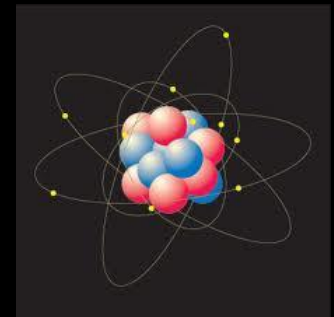


Has science
disproved God?

Why are we having this discussion?

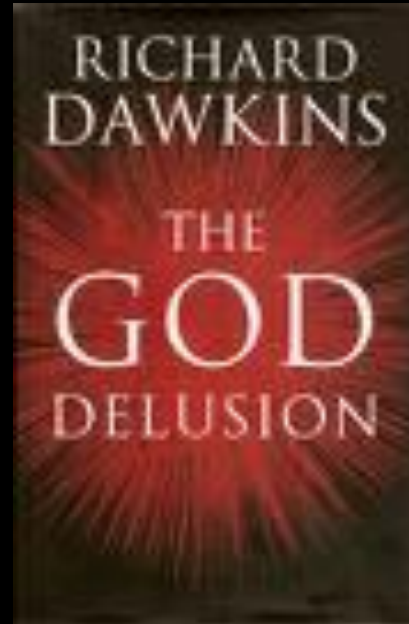


What can Science really say about life the universe and everything?





Why are we having this discussion?





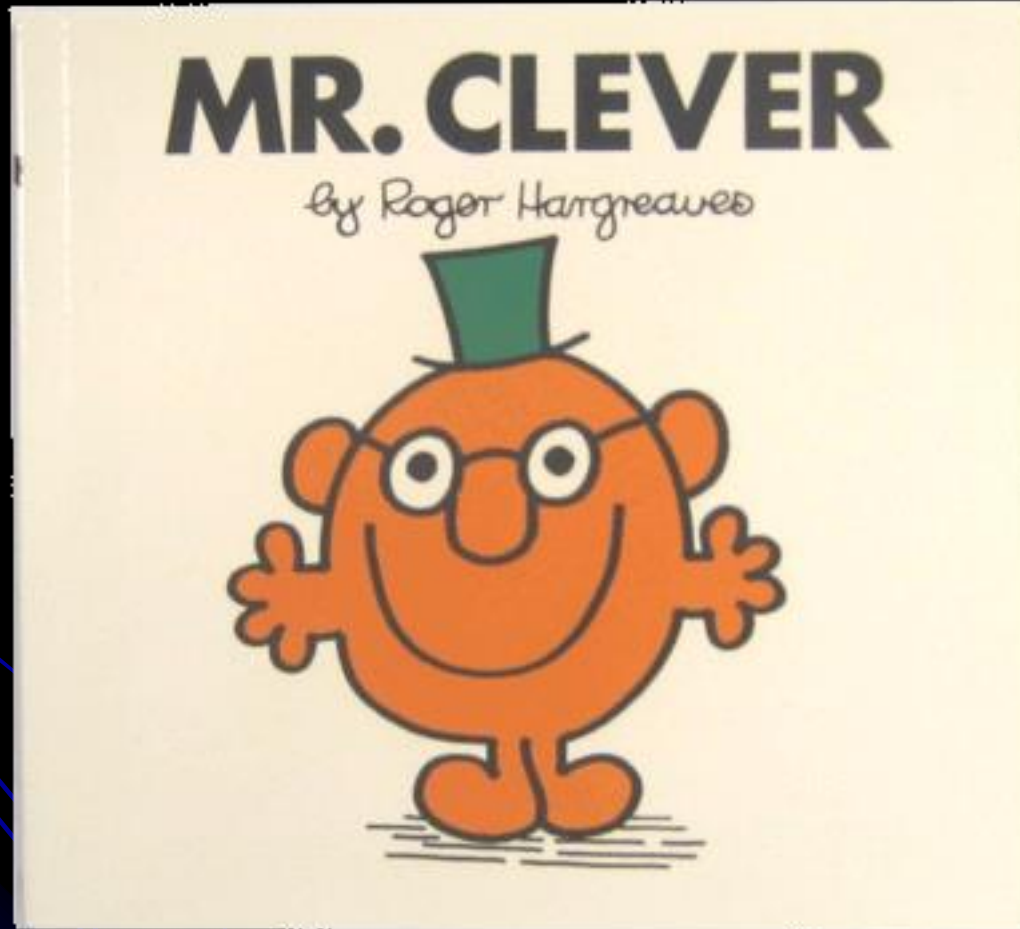
“You have to turn off your brain to believe in God!”



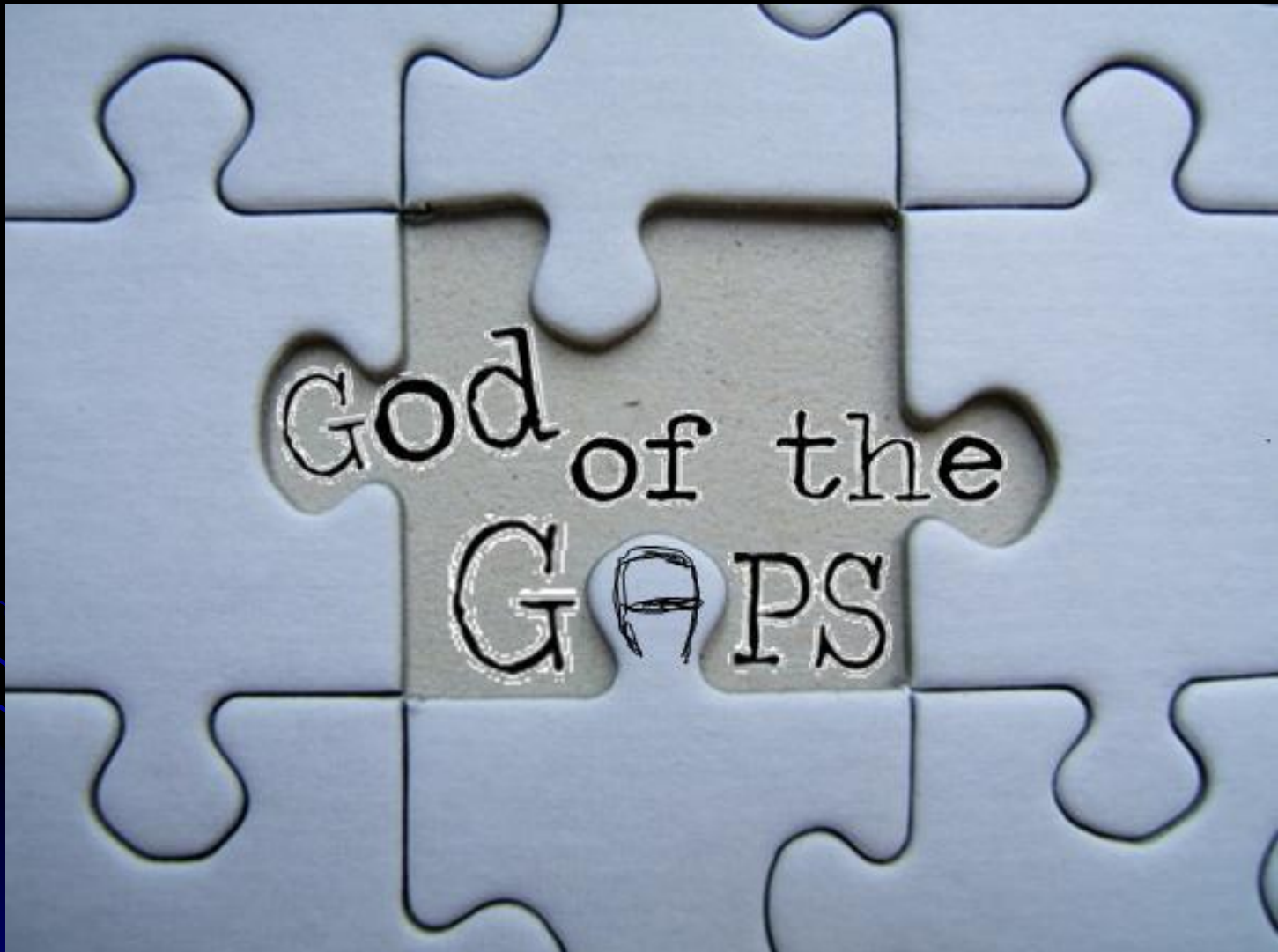
Do you have to turn off your brain to believe in God?



Why do those clever people say
these things?









So what is the real story? ...



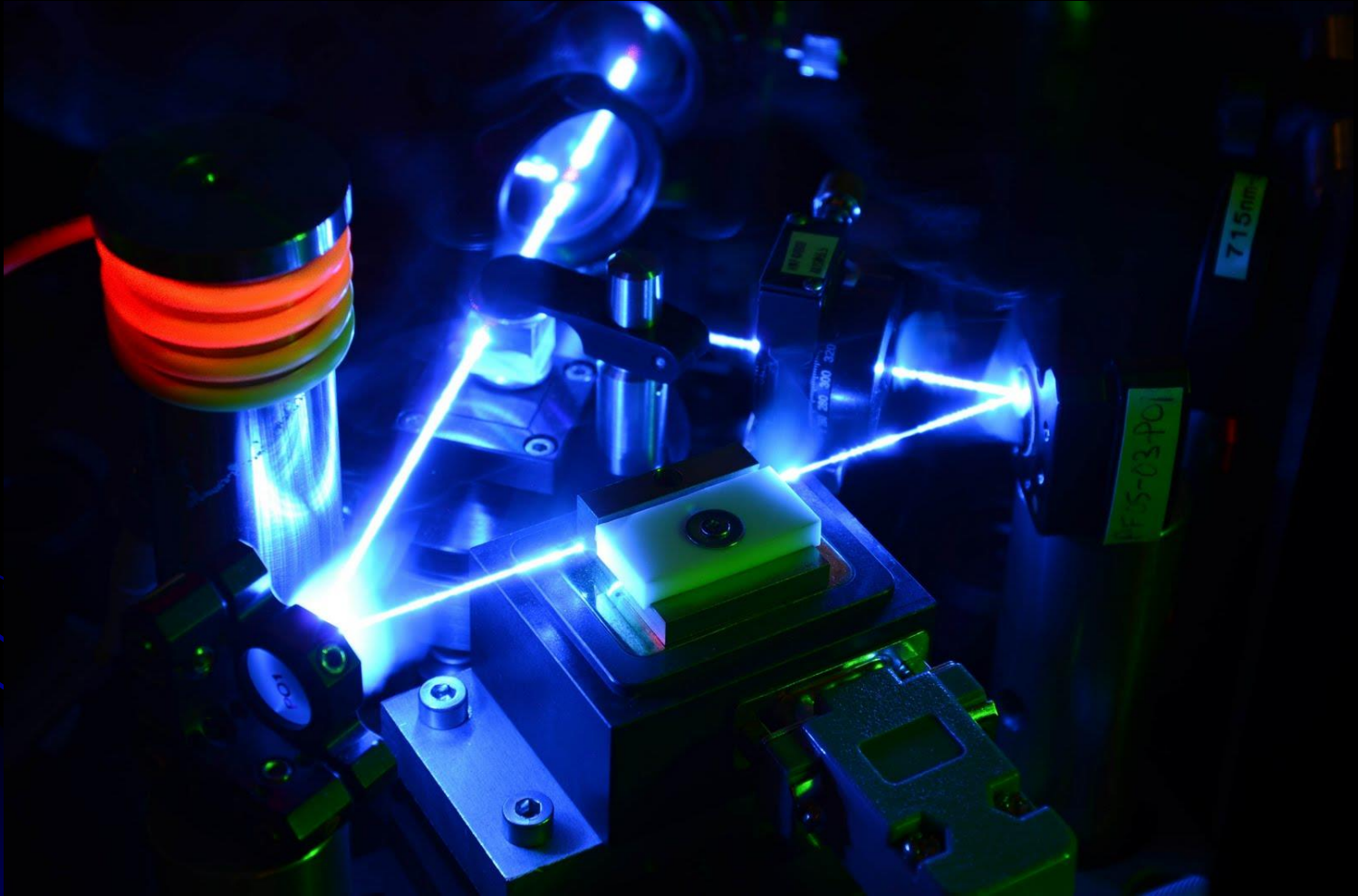


SCIENCE

helps you prove others are dumb.



What is science?



? Problem No. 1...

God is outside of science





Problem No.2...

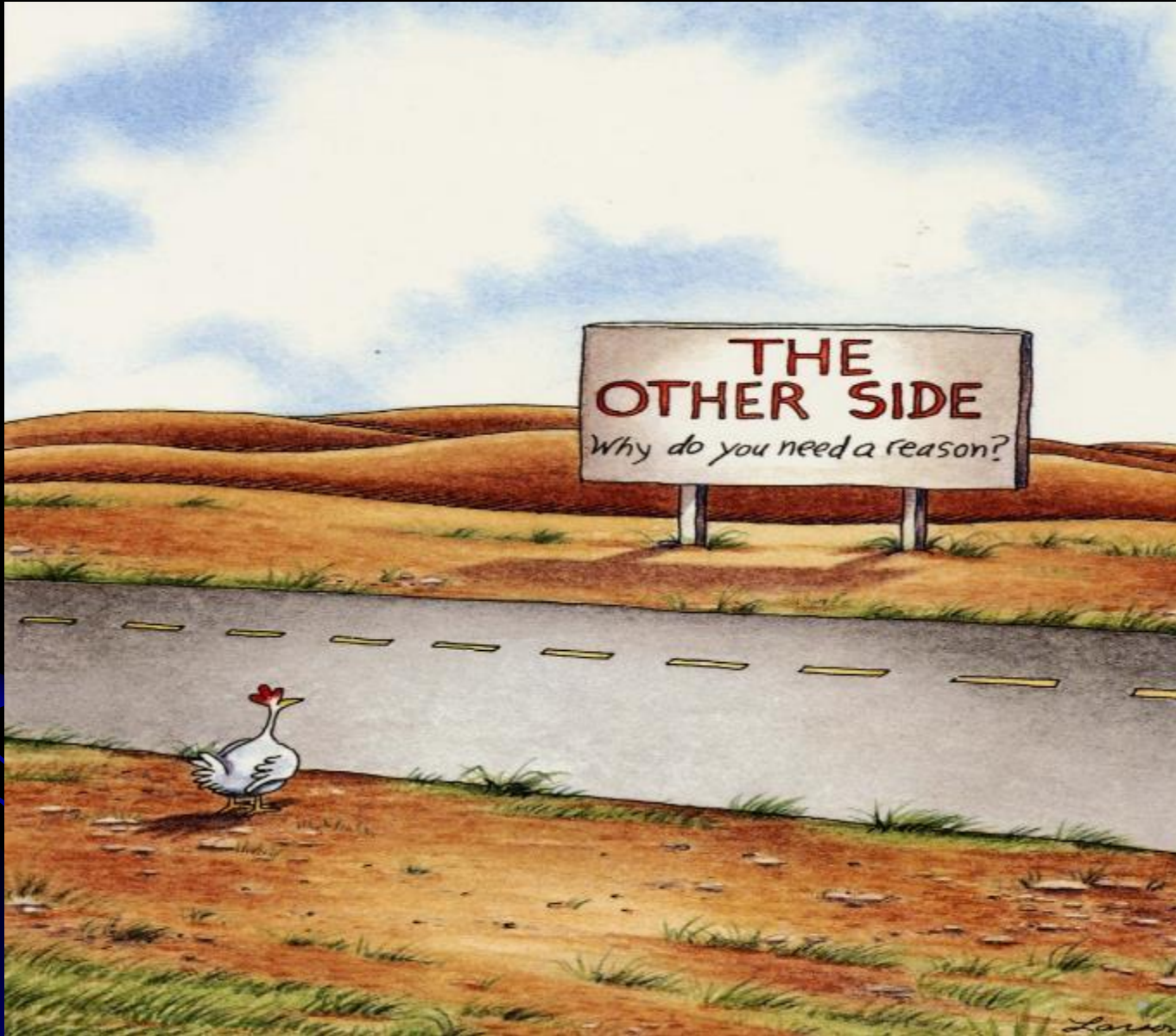
Scientism / Naturalism

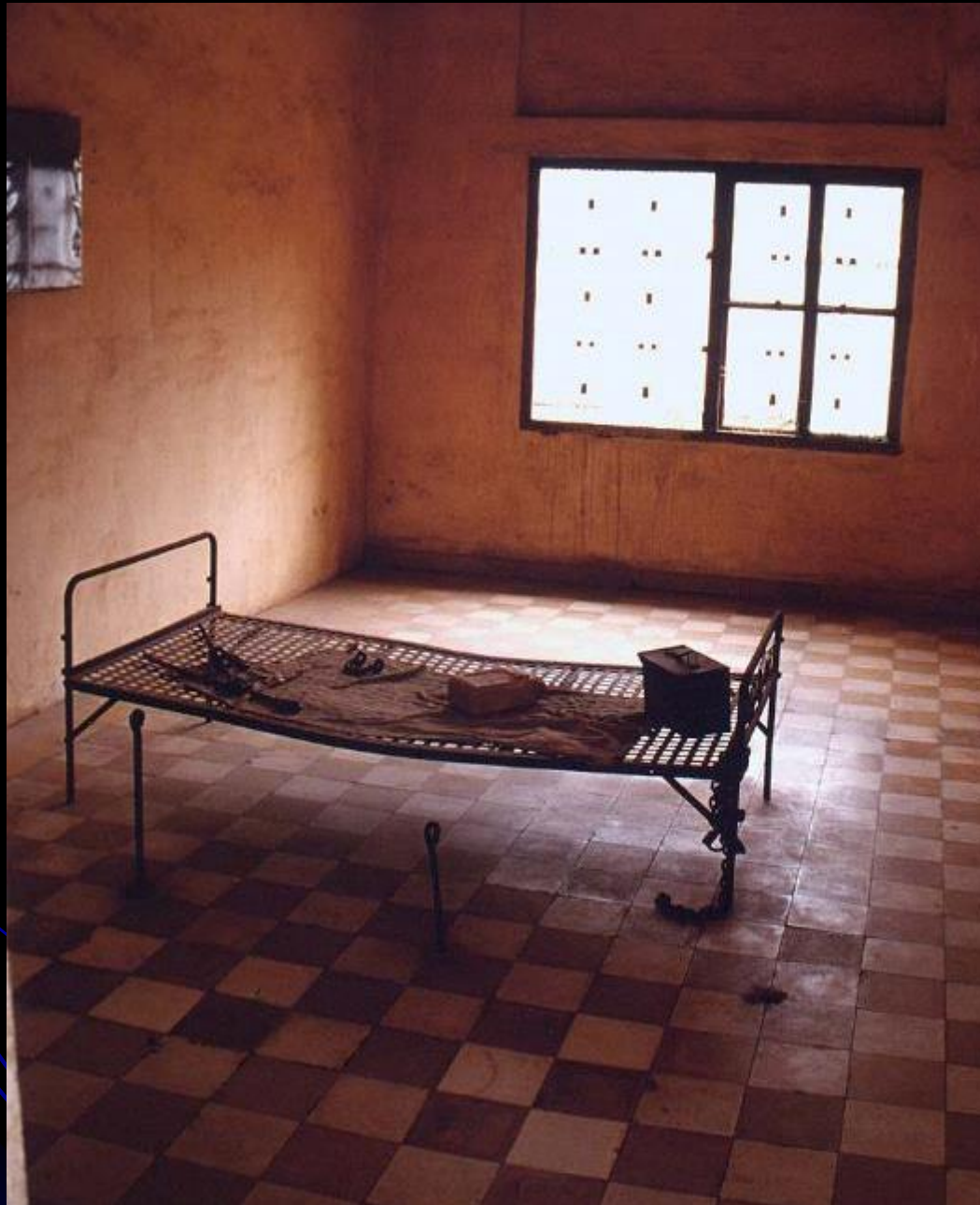




18th century enlightenment







? Science - The Limits

“That there is indeed a limit upon science is made very likely by the existence of questions that science cannot answer, and that no conceivable advance of science would empower it to answer.... I have in mind such questions as: How did everything begin? What are we all here for

Sir Peter Medawar



Proof ?

$$\frac{(P_0 - C_1) + p^2 (\sqrt{b})}{D + N_2 \left(\frac{B}{b_2} \right) + E^2} = \text{God?}$$



Borders !





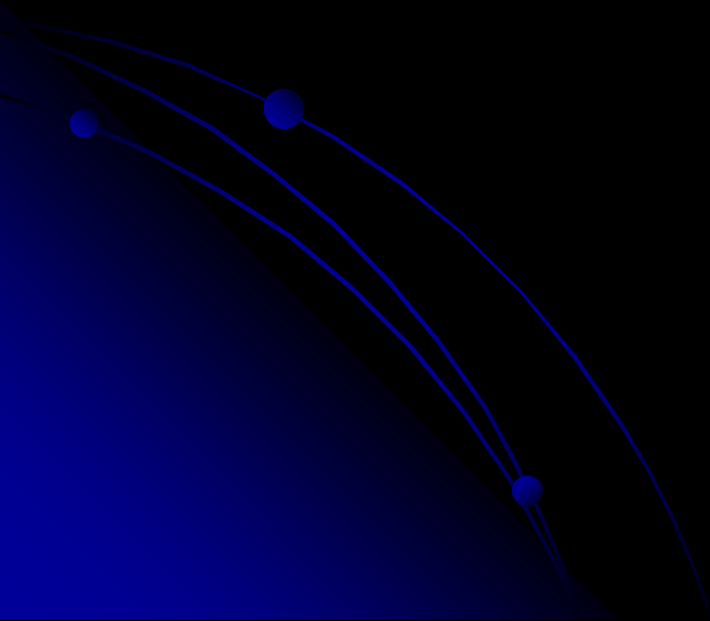
Should **scientists** comment of
matters of **faith**?

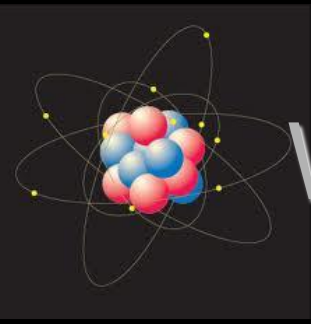
Should **churchmen** comment
on matters of **science**?





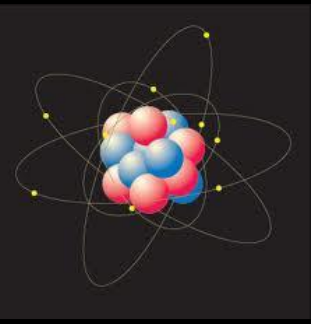
What about Physics?

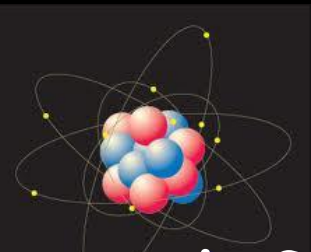




Where do physics and faith meet?







Big Bang = Ex Nihilo

And God said...

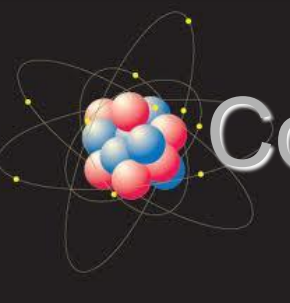
$$\oint \mathbf{E} \cdot d\mathbf{A} = \frac{q_{enc}}{\epsilon_0}$$

$$\oint \mathbf{B} \cdot d\mathbf{A} = 0$$

$$\oint \mathbf{E} \cdot d\mathbf{s} = -\frac{d\Phi_B}{dt}$$

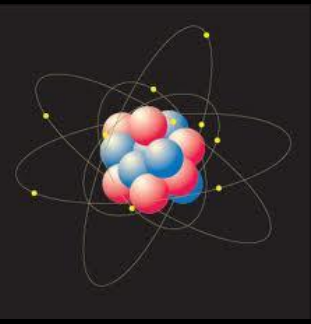
$$\oint \mathbf{B} \cdot d\mathbf{s} = \mu_0 \epsilon_0 \frac{d\Phi_E}{dt} + \mu_0 i_{enc}$$

...and there was light!



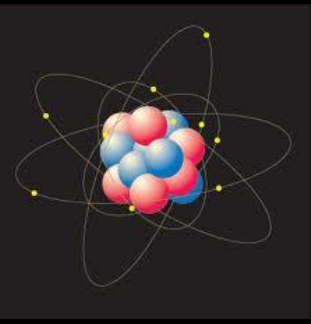
Cosmic singularity or 'The Big Bang!'





Fine tuning

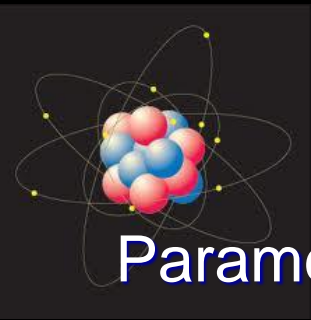




Fine tuning – amount of ‘stuff’

- **Too much** = black holes = no universe!

- **Too little** = no stars = no life!



Parameter

Max.
Deviation

**Ratio of
Electrons/Protons**

$1:10^{37}$

**Ratio of
Electromagnetic
Force / Gravity**

$1:10^{40}$

**Expansion Rate
of Universe**

$1:10^{55}$

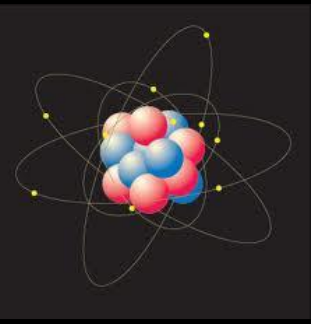
Mass of Universe

$1:10^{59}$

**Cosmological
Constant**

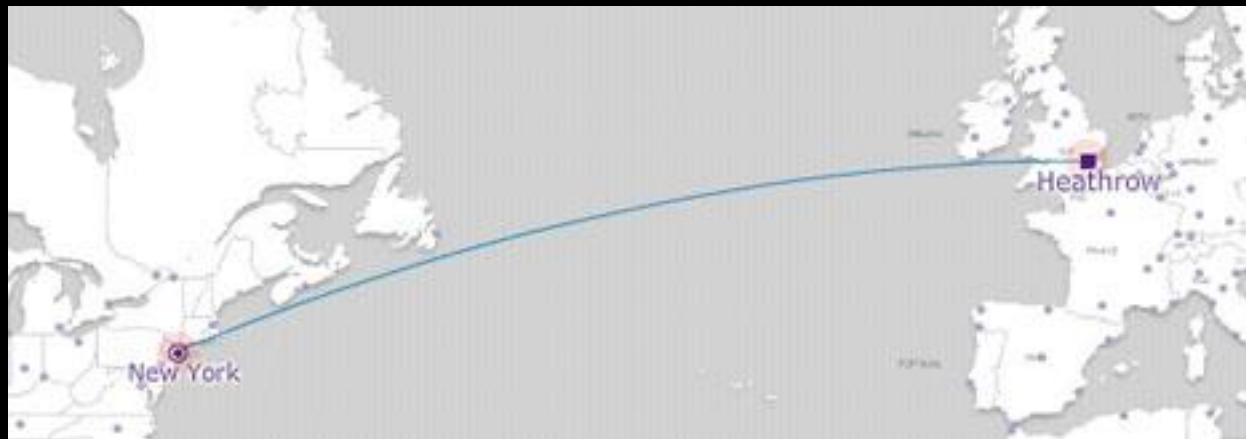
$1:10^{120}$



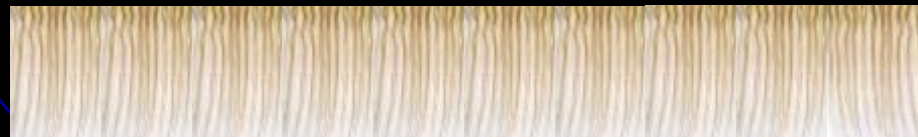


How 'fine' is fine tuning?

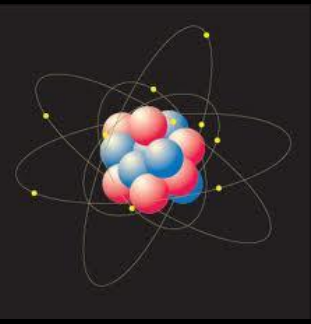
1 part in 10,000,000,000,000,000



New York ← 5567.11 km → **London**



= 2 x 1,000,000th of a hair breadth



A commonsense interpretation of the facts suggests that a super- intellect has monkeyed with physics, as well as with chemistry and biology, and that there are no blind forces worth speaking about in nature.

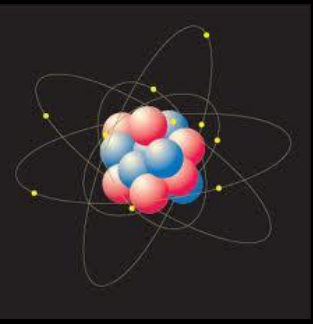
The numbers one calculates from the facts seem to me so overwhelming as to put this conclusion almost beyond question

Sir Fred Hoyle

Evolution and fine tuning -

Are science and Christianity **enemies** or **friends**?





*"Science without religion is lame;
religion without science is blind." (Albert Einstein)*

Has science
disproved God...

What to you think?



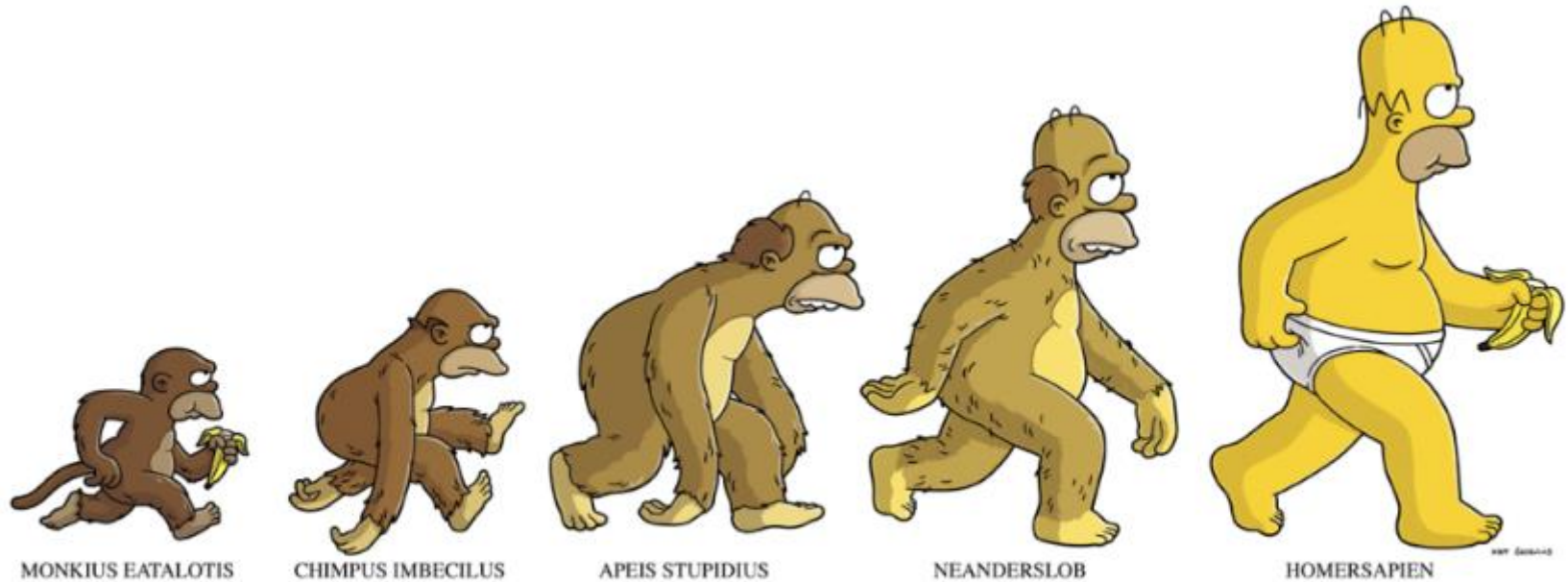
Appendix



What about Creation vs. Evolution



The popular argument



HOMERSAPIEN



The popular argument





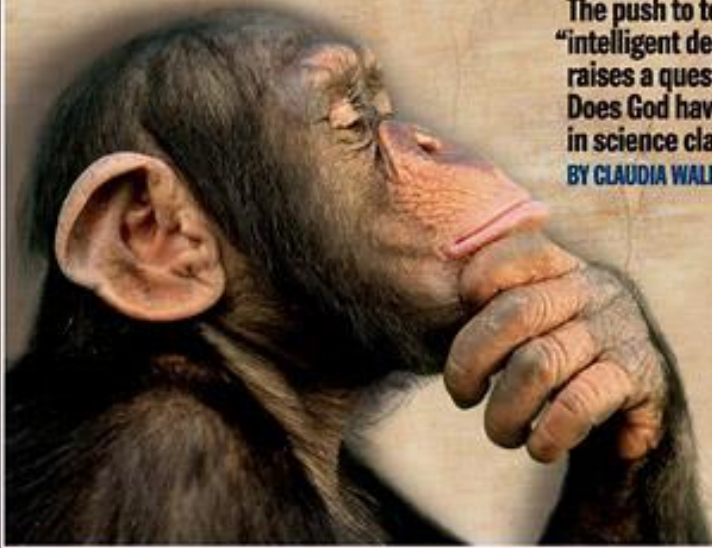
AUGUST 18, 2005

www.time.com AOL Keyword: TIME

CAN CONDI RICE SAVE IRAQ? ■ A MUMMY'S SECRETS

TIM

EVOLUTION WARS



The push to teach
"intelligent design"
raises a question:
Does God have a place
in science class?
BY CLAUDIA WALLIS

Chapter 1

In the beginning God created
the heaven and the earth.
2 And the earth was without
form, and void; and darkness was upon
the face of the deep. And the Spirit of
God hovered upon the waters.

3 And God said, Let there
be light.

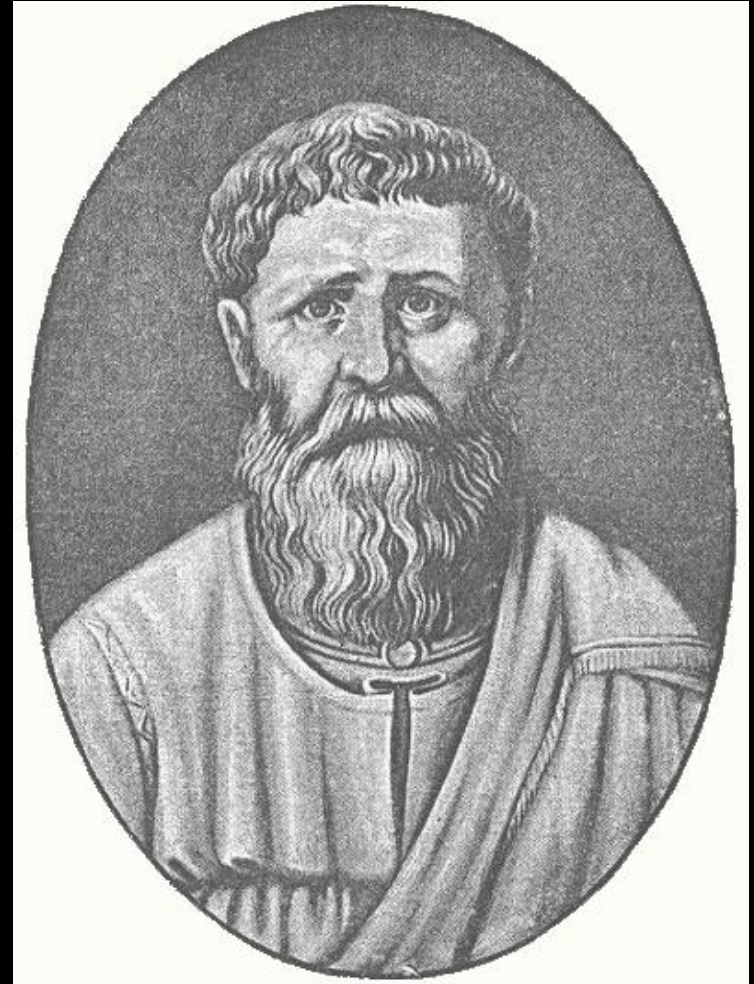
*'I find these discoveries
are completely
compatible with
everything I know about
God through the
Scriptures.'*





*'No Christian would
dare say that the
narrative must not
be taken in a
figurative sense'*

St Augustine AD 391



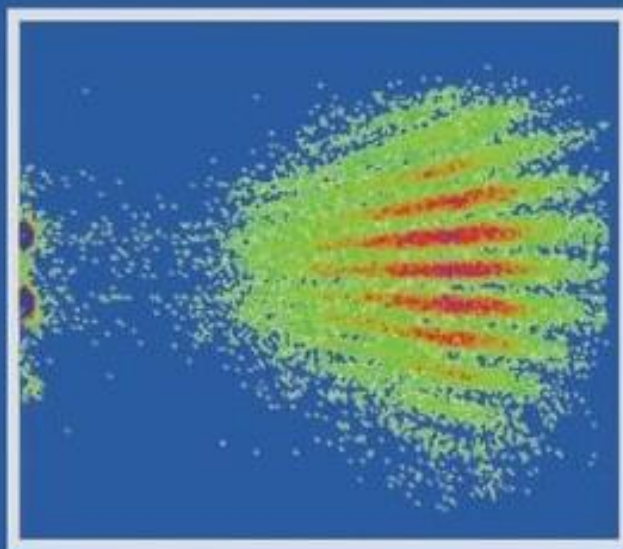




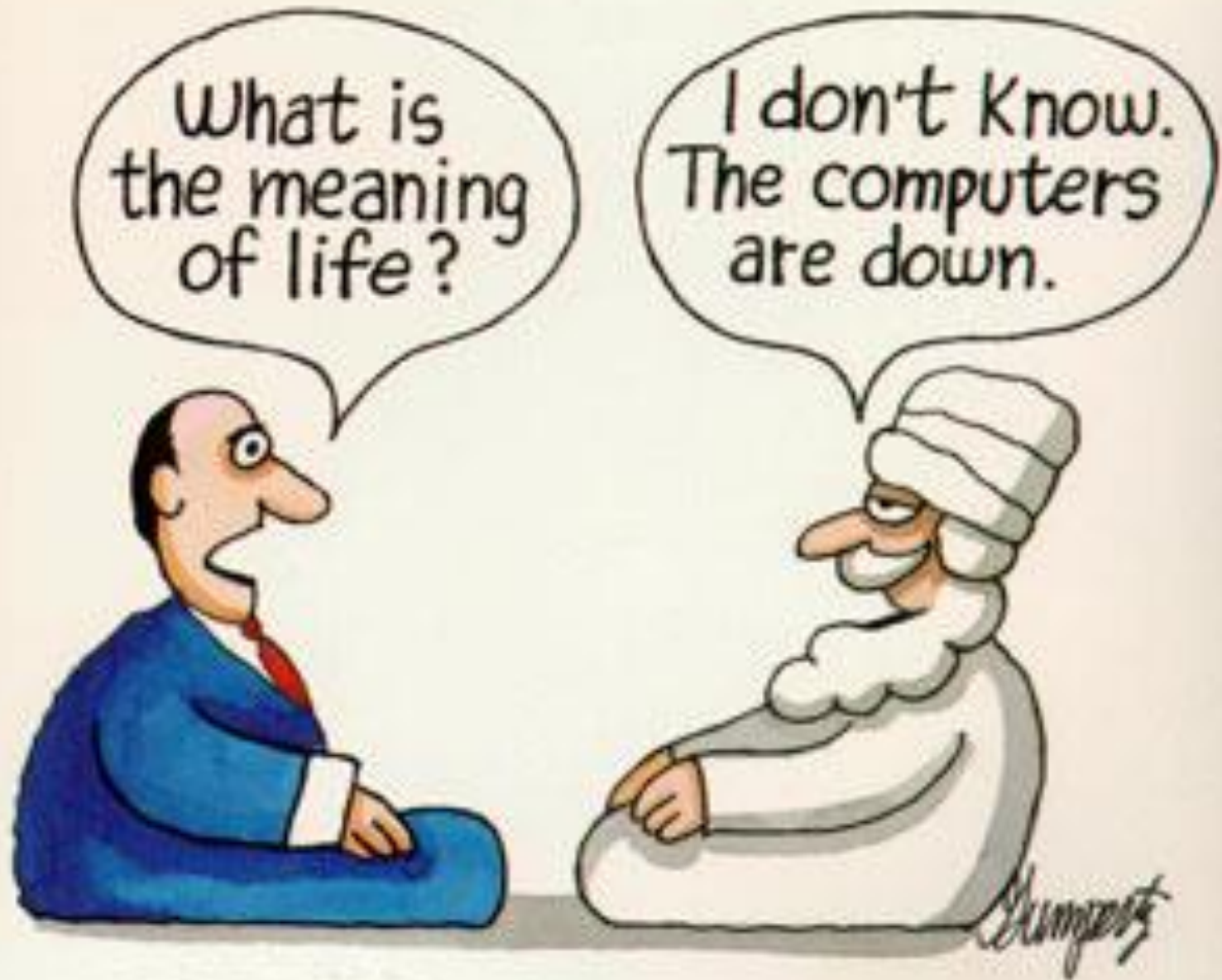


Quantum Physics

A Fundamental Approach to Modern Physics



John S. Townsend





köszönöm !תודה dēkuji
mahalo 고맙습니다
thank you
merci 谢谢 danke
Ευχαριστώ شکرا
どうもありがとう gracias





י	ט	ח	ז	ו	ה	ד	ג	ב	א
Yod	Tet	Chet	Zayin	Vav	He	Dalet	Gimel	Bet	Alef
(Y)	(T)	(Ch)	(Z)	(V)	(H)	(D)	(G)	(B/V)	(silent)
ע	ס	נ	נ	מ	מ	ל	ך	כ	
Ayin	Samech	Nun	Nun	Mem	Mem	Lamed	Khaf	Kaf	
(silent)	(S)	(N)	(N)	(M)	(M)	(L)	(Kh)	(K/Kh)	
ת	ש	ר	ק	ץ	צ	ף	פ		
Tav	Shin	Resh	Qof	Tsadeh	Tsadeh	Feh	Peh		
(T)	(Sh/S)	(R)	(Q)	(Ts)	(Ts)	(F)	(P/F)		



"The Crowd were on the edge of their seats"

"There was a Heart-stopping moment..."

"The Captain was as sick as a parrot"

"...But afterwards he was over the moon"

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What would they understand?

$$\frac{-\hbar^2}{2m} \frac{\partial^2 \Psi(x,t)}{\partial x^2} + U(x) \Psi(x,t) = i\hbar \frac{\partial \Psi(x,t)}{\partial t}$$







4000 BC





Why not How



Thank you!