



What is  
the nature  
of our  
world?



Where did  
the world  
come from?

美と字印 び技す 国出のシ品 致最ま ゴ園んは証 メ密万

TRIXIT IS ALLAROUND US ITISTHERE WHEN YOU WATCH TELEVISION  
THE MATRIX HEIS THE ONE DREAMWORLD NEO

の補 及術文写て 感ザ絵しオ会観美イカ版もレ 保の 文精なフト社明をに美と字印 び技す 国出のシ品 致最ま

と字印 び技す 国出のシ品 致最ま  
ALLAROUND US ITISTHERE WHEN YOU WATCH TELEVISION

及術文写て 感ザ絵しオ会観美イカ版もレ 保の 文精なフト社明をに美と字印 び技す 国出のシ  
TRIXIT IS ALLAROUND US ITISTHERE WHEN YOU WATCH TELEVISION

をに美と字印 び技す 国出のシ品 致最ま ゴ園んは証 メ密万  
TRIXIT IS ALLAROUND US ITISTHERE WHEN YOU WATCH TELEVISION

刷の補 及術文写て 感ザ絵しオ会観美イカ版もレ 保の 文精なフト社明をに美と字印 び技す 国出のシ品 致  
DREAMWORLD NEO ANAGENT TRINITY WHAT IS YHE MAT

に美と字印 び技す 国出のシ品 致最ま ゴ園んは証 メ密  
TRIXIT IS ALLAROUND US ITISTHERE WHEN YOU WATCH TELEVISION

感ザ絵しオ会観美イカ版もレ 保の 文精なフト社明をに美と字印 び技す 園  
TRIXIT IS ALLAROUND US ITISTHERE WHEN YOU WATCH TELEVISION

をに美と字印 び技す 国出のシ品 致最ま ゴ園んは証 メ密万  
TRIXIT IS ALLAROUND US ITISTHERE WHEN YOU WATCH TELEVISION

保の 文精刷の補 及術文写て 感ザ絵しオ会観美イカ版もレ 保の 文精なフト社明をに美と字印 び技す  
FAPERS

THE MATRIXIT IS ALLAROUND US ITISTHERE WHEN YOU  
TRIXIT IS ALLAROUND US ITISTHERE WHEN YOU WATCH TELEVISION

感ザ絵しオ会観美イカ版もレ 保の 文精なフト社明をに美と字印 び技す 国出のシ品 致最ま  
TRIXIT IS ALLAROUND US ITISTHERE WHEN YOU WATCH TELEVISION

致最ま ゴ園んは証 メ密万  
TRIXIT IS ALLAROUND US ITISTHERE WHEN YOU WATCH TELEVISION

をに美と字印 び技す 国出のシ品 致最ま ゴ園んは証 メ密万  
TRIXIT IS ALLAROUND US ITISTHERE WHEN YOU WATCH TELEVISION

刷の補 及術文写て 感ザ絵しオ会観美イカ版もレ 保の 文精なフト社明をに美と字印 び技す 国出のシ品 致最ま  
TRIXIT IS ALLAROUND US ITISTHERE WHEN YOU WATCH TELEVISION

をに美と字印 び技す 国出のシ品 致最ま  
TRIXIT IS ALLAROUND US ITISTHERE WHEN YOU WATCH TELEVISION

刷の補 及術文写て 感ザ絵しオ会観美イカ版もレ 保の 文精なフト社明をに美と字印 び技す 国出  
TRIXIT IS ALLAROUND US ITISTHERE WHEN YOU WATCH TELEVISION

刷の補 及術文写て 感ザ絵しオ会観美イカ版もレ 保の 文精なフト社明をに美と字印 び技す 国出  
TRIXIT IS ALLAROUND US ITISTHERE WHEN YOU WATCH TELEVISION

刷の補 及術文写て 感ザ絵しオ会観美イカ版もレ 保の 文精なフト社明をに美と字印 び技す 国出  
TRIXIT IS ALLAROUND US ITISTHERE WHEN YOU WATCH TELEVISION

MATRIX

Is the world real or some kind of illusion?

A scanning electron microscope (SEM) image showing a dense array of nanowires. The nanowires are oriented vertically and appear to be interconnected at their bases. The image is in grayscale and shows the intricate structure of the nanowires.

Is the world merely  
matter and energy?

20PM

20KV

13

026

S

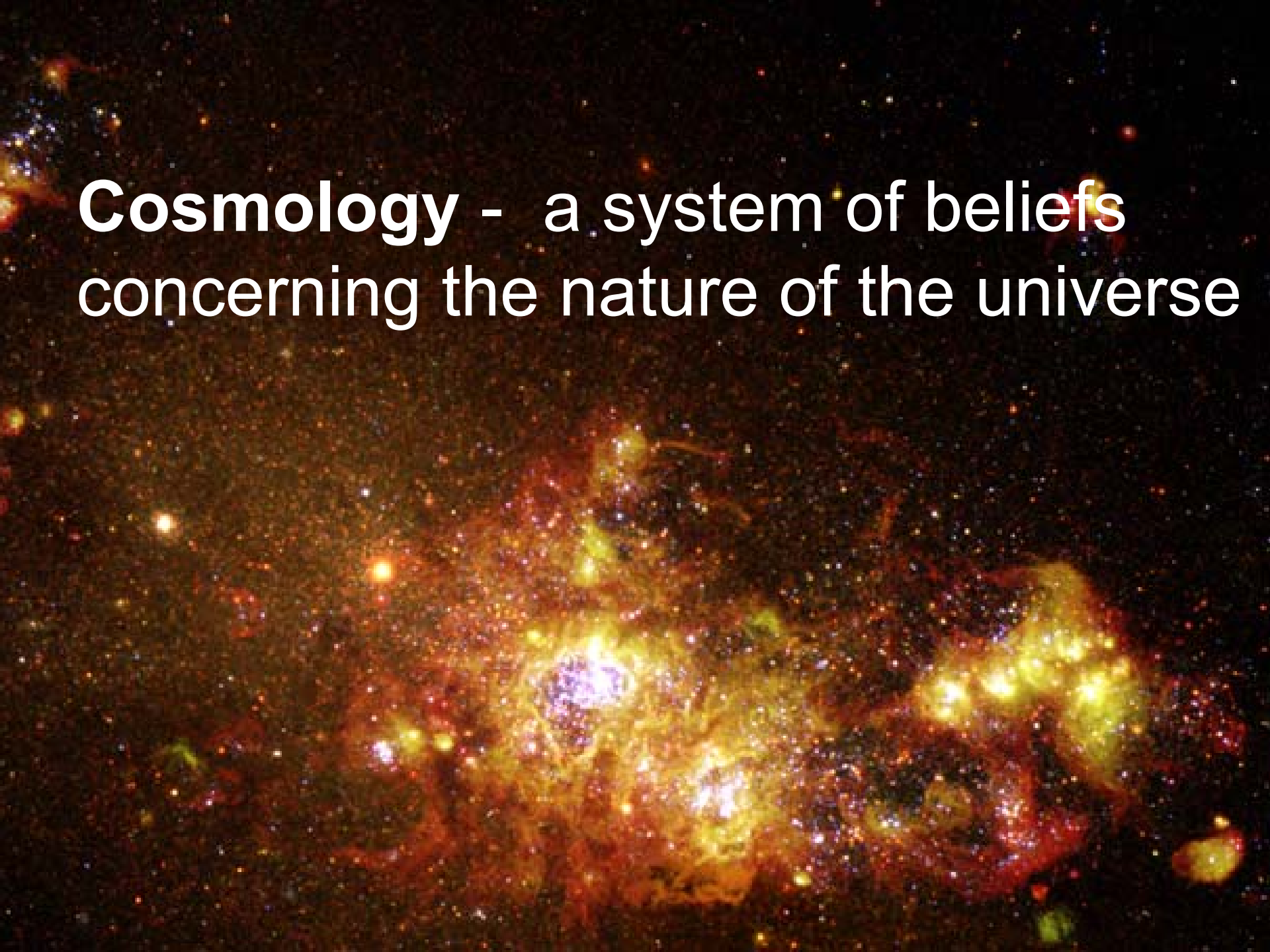


Is the world living?

Is the world sacred?



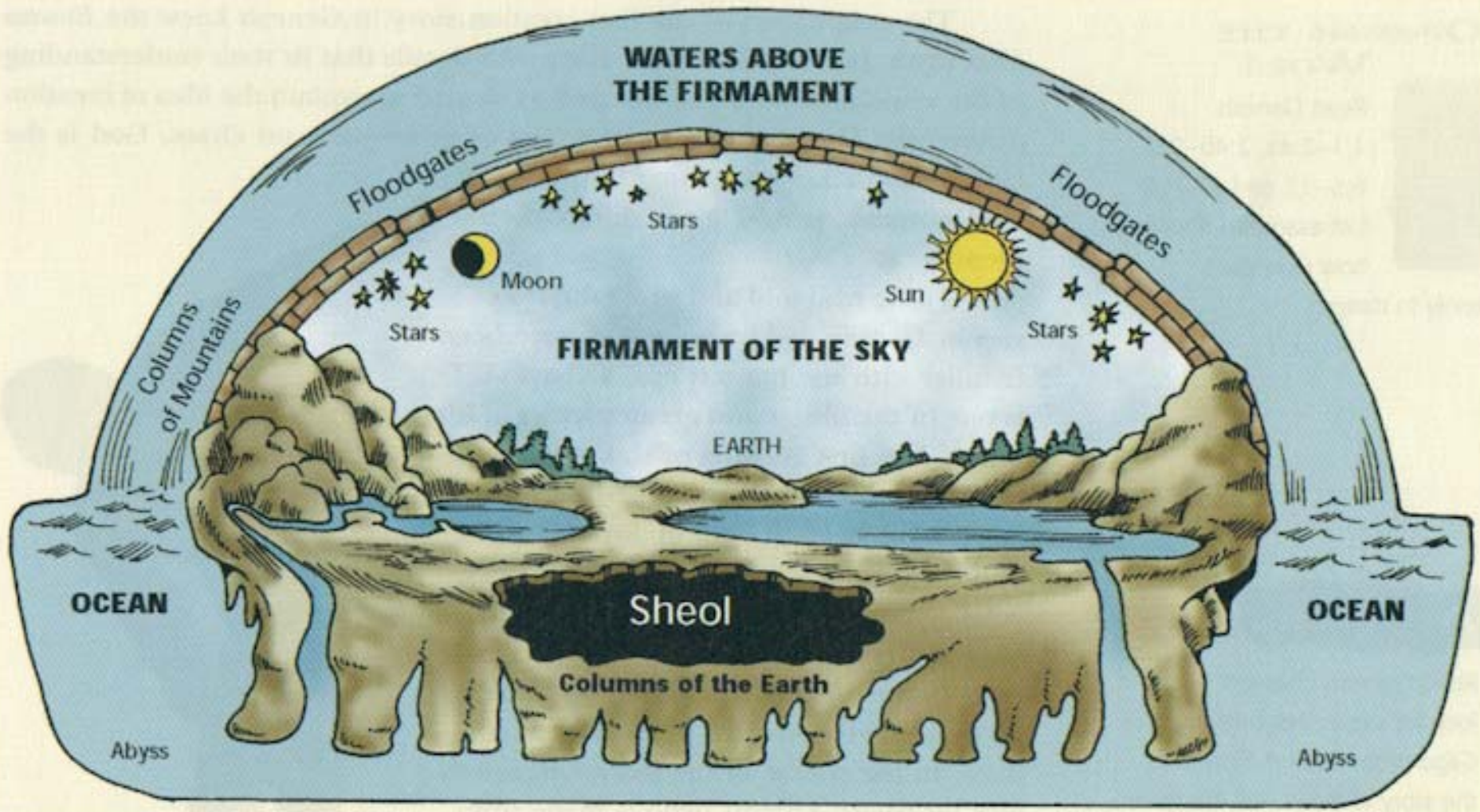
**Cosmology** - a system of beliefs concerning the nature of the universe





A religion's cosmology will help determine its relationship to other "ways of knowing truth" like science.

Some religions embrace science as good and helpful, others are skeptical of science.



The Cosmology of the Ancient Judaism

# THE BIG BANG THEORY

TIME BEGINS

ONE SECOND

PRESENT DAY

Time	$10^{-43}$ sec.	$10^{-32}$ sec.	$10^{-6}$ sec.	3 min.	300,000 yrs.	1 billion yrs.	15 billion yrs.
Temperature		$10^{27}$ °C	$10^{13}$ °C	$10^8$ °C	10,000°C	-200°C	-270°C

**1** The cosmos goes through a superfast "inflation," expanding from the size of an atom to that of a grapefruit in a tiny fraction of a second

**2** Post-inflation, the universe is a seething, hot soup of electrons, quarks and other particles

**3** A rapidly cooling cosmos permits quarks to clump into protons and neutrons

**4** Still too hot to form into atoms, charged electrons and protons prevent light from shining; the universe is a superhot fog

**5** Electrons combine with protons and neutrons to form atoms, mostly hydrogen and helium. Light can finally shine

**6** Gravity makes hydrogen and helium gas coalesce to form the giant clouds that will become galaxies; smaller clumps of gas collapse to form the first stars

**7** As galaxies cluster together under gravity, the first stars die and spew heavy elements into space; these will eventually form into new stars and planets

NOTE: The numbers in cosmology are so great and the numbers in subatomic physics are so small that it is often necessary to express them in exponential form. Ten multiplied by itself, or 100, is written as  $10^2$ . One thousand is written as  $10^3$ . Similarly, one-tenth is  $10^{-1}$ , and one-hundredth is  $10^{-2}$ .

Sources: *The Birth of the Universe*; *The Kingfisher Young People's Book of Space*

TIME Graphic by Ed Gabel

