

A dramatic scene of a volcanic island with a large, glowing pinkish-purple sphere in the sky, surrounded by meteors and a large comet.

***Origins:
Is It Reasonable To
Believe in God in
This Scientific Age?***



Belief in God:

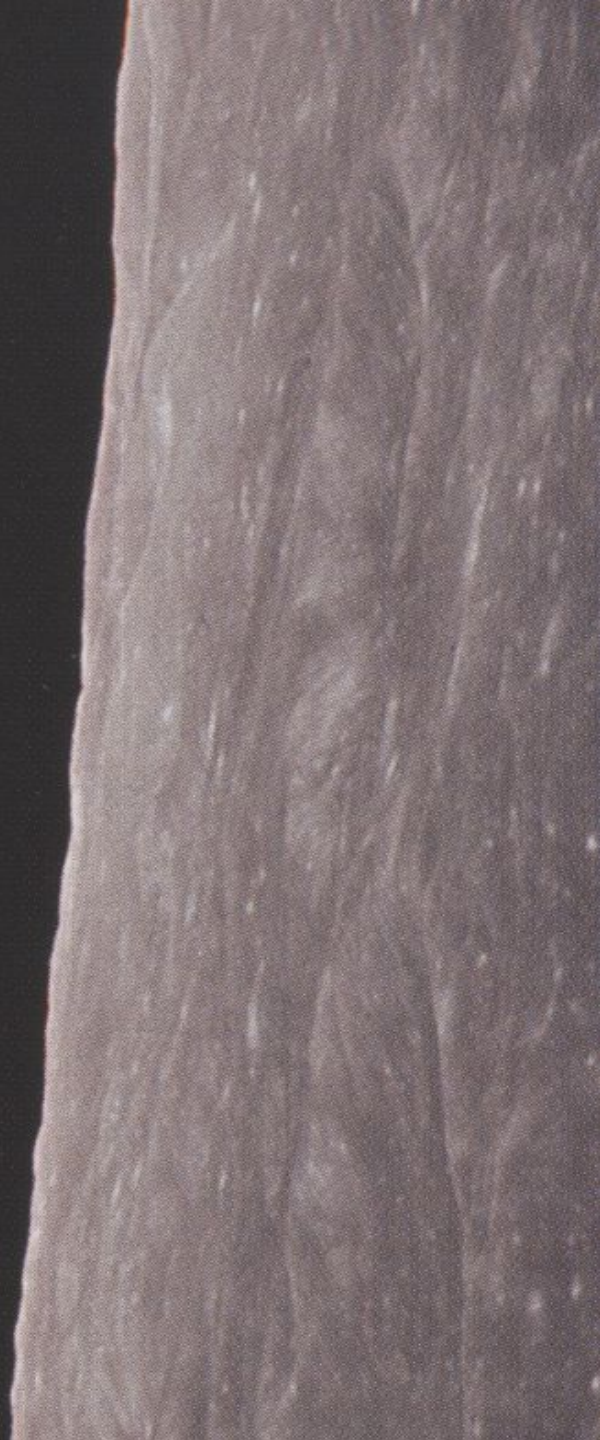
Is It Reasonable In This Scientific Age?

- **Rom. 1:20** - His invisible attributes ... understood by the things that are made

His Eternal Power

His Divine Nature (Godhead)

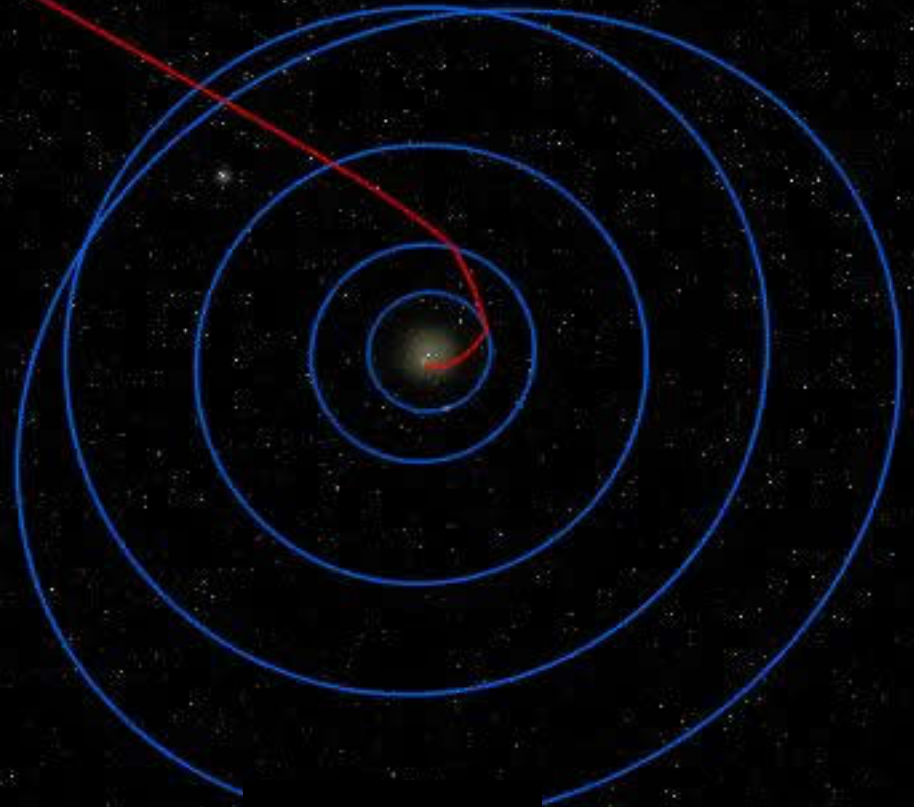
- **Argument from Design**



**Design at the
Macroscopic Level:
The Rare Earth**

Voyager 1 Projected Flight Path

← Voyager 1



The Pale Blue Dot
by Carl Sagan



The Drake Equation

$$N = N_s f_s f_p n_e f_l f_i f_c F_L$$

N = number of communicating civilizations in our Galaxy right now

N_s = number of stars in the galaxy (2×10^{11})

f_s = fraction of stars suitable for life (0.05-0.3) [1×10^{10} - 6×10^{11}]

f_p = fraction of suitable stars with planets (~ 0.1) [1×10^9 - 6×10^{10}]

n_e = average number of habitable planets or moons per solar system (0.01-0.5)
[1×10^7 - 3×10^9]

f_l = fraction on which life develops (0.01 - 1.0) [1×10^5 - 3×10^9]

f_i = fraction on which intelligence develops (0.001-0.5) [100 - 1.5×10^9]

f_c = fraction which try to communicate (~ 0.5) [50 - 7.5×10^8]

F_L = fraction of the star's life during which communicative civilization lasts
(1×10^{-8} - 1×10^{-3})

$$5 \times 10^{-7} < N < 750\,000$$



Rare Earth

Peter D. Ward & Donald Brownlee
2004

**Why complex life is
uncommon in the universe**



The Privileged Planet

Guillermo Gonzalez & Jay W. Richards
2004

**How our place in the universe
is designed for discovery**

**“...the very same rare properties that allow
for our existence ... also provide the
best overall setting to make discoveries
about the world around us.”**



God's Crime Scene

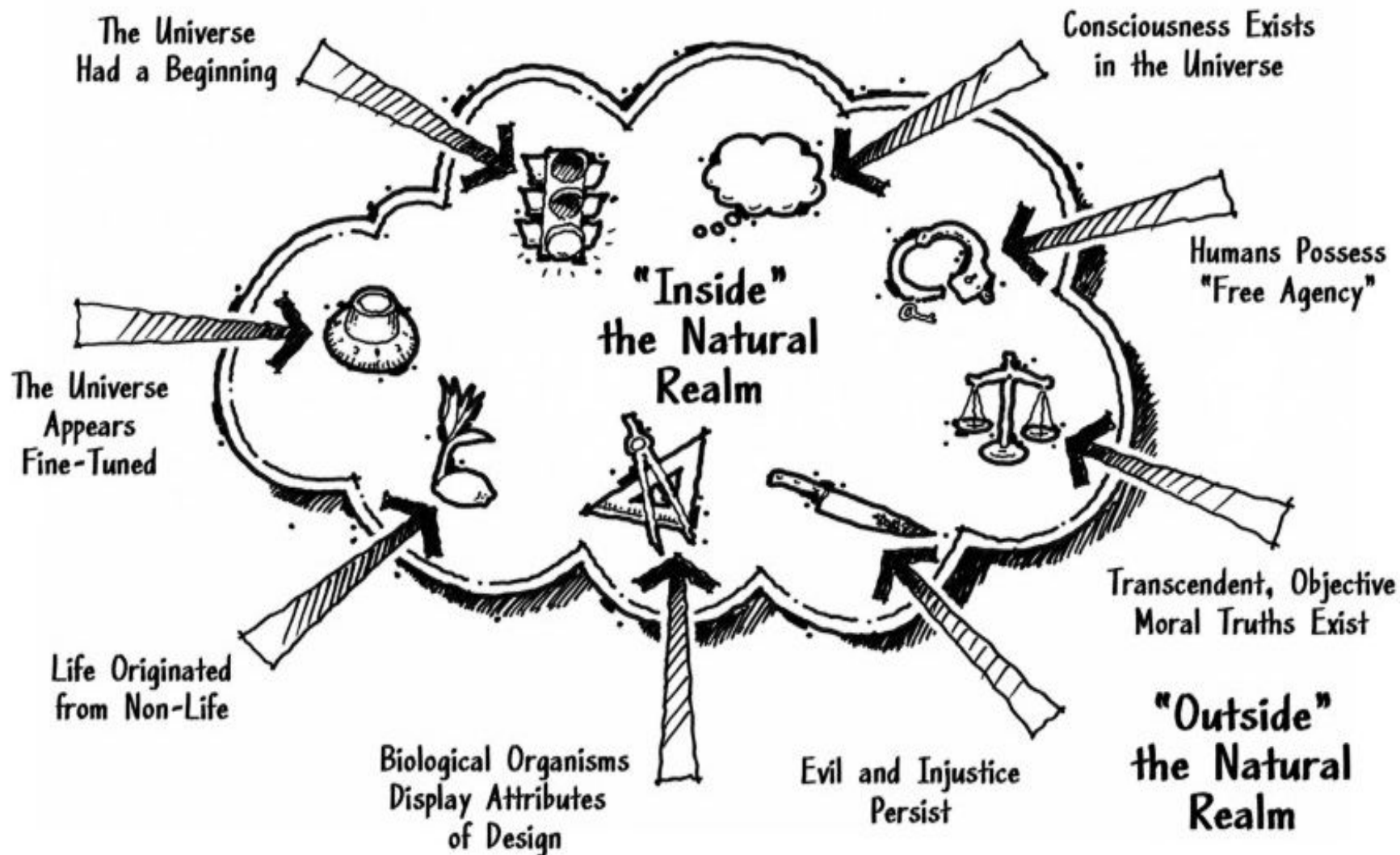
J. Warner Wallace

**A cold case detective
examines the evidence for
divinely created universe**



God's "Crime" Scene

The Cosmic "Room" of the Universe





God's Crime Scene

J. Warner Wallace

Chapter Two

Evidence “In the Room”

- **Foundational**
- **Regional**
- **Locational**

Universe Appears “Fine-Tuned”

- ***The Goldilocks Enigma: Why is the Universe Just Right for Life?*** Paul Davies, 2008

“One of the most significant facts – arguably *the* most significant fact – about the universe is that we are part of it.” (*Goldilocks*, page 2)

“Everyone agrees that the universe *looks* as if it was designed for life.” (*Goldilocks*, page 191)

“It looks as if our universe is spectacularly ‘fine-tuned for Life.’ By this I mean only that it *looks* as if small changes in this universe’s basic features would have made life’s evolution impossible.”

(*Universes*, J. Leslie, 1996, page 2)



Design in the Universe

■ The Anthropic Principle

In the 1960's, scientists had discovered:

- **2** characteristics of the **cosmos** “fine-tuned” to make physical life possible
- **8-10** characteristics of the **solar system** “fine-tuned” for human life to be possible

By the 2000's, scientists had discovered:

- **38** characteristics of the **cosmos** recognized as “fine-tuned” for physical life.
- **Over 150** characteristics of the **solar system** “fine-tuned” for human life to be possible



Design in the Universe

- Foundational “fine-tuned” factors to support life – “Just right!”

Strong Nuclear Force

Weak Nuclear Force

Electromagnetic Force

Gravitational Force

Ratio of electrons to protons (# and mass)

Mass density of the universe



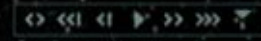
Design in the Universe

- Regional “fine-tuned” factors to support life – “Just right!”

Proper type of galaxy

Hubble

8 Apr 2008
06:23:08 GMT+2
Rate: 1x

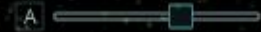


Set Time

Ambient Light Level: 0,00



Magnitude limit: 9,90



Galaxy Light Gain: 10%



Set Render Options

Solar System Browser

FOV: 34° 30' 31" (0,75x)



Measure

Distances

Cockpit

Compass

A vibrant astronomical image showing a portion of the constellation Serpens. The scene is filled with numerous stars of various colors, including bright white and yellow stars, and several prominent blue stars. The background is a complex, multi-colored nebula with shades of green, yellow, and orange, interspersed with darker, dusty regions. The overall appearance is that of a rich star-forming region.

**A portion of the
constellation Serpens**

Types of Galaxies

Elliptical galaxy



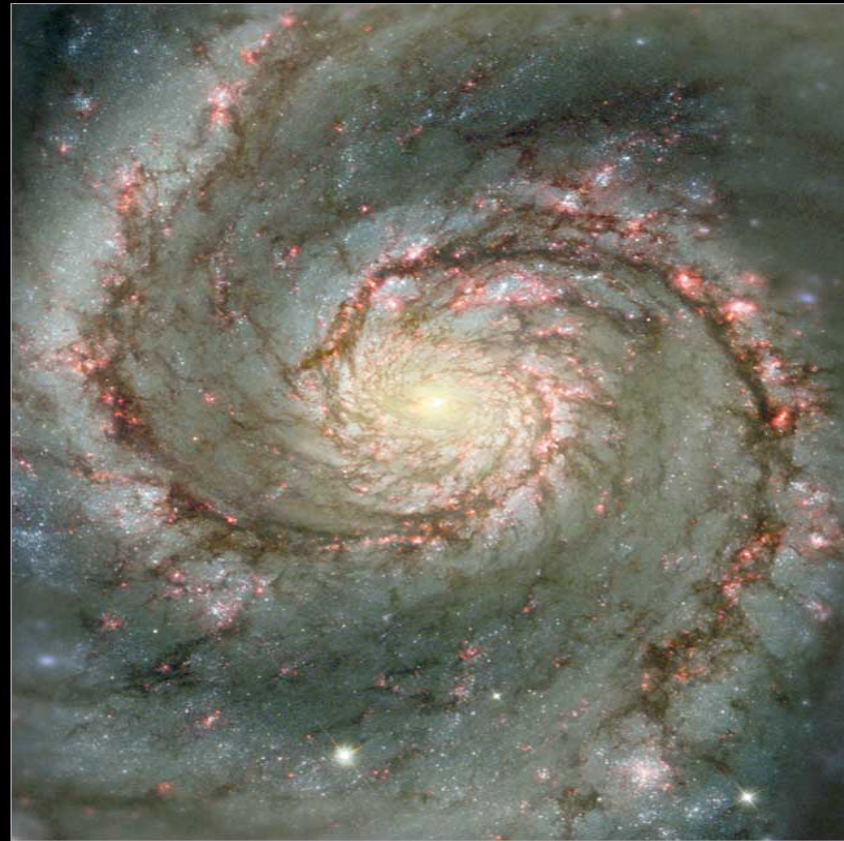
Irregular galaxy



Types of Galaxies

Spiral galaxy

Whirlpool Galaxy • M51



Hubble
Heritage

NASA and The Hubble Heritage Team (STScI/AURA)
Hubble Space Telescope WFPC2 • STScI-PRC01-07



Design in the Universe

- **Regional “fine-tuned” factors to support life – “Just right!”**

- Proper type of galaxy**

- Proper place in the galaxy**

Design in the Universe





Design in the Universe

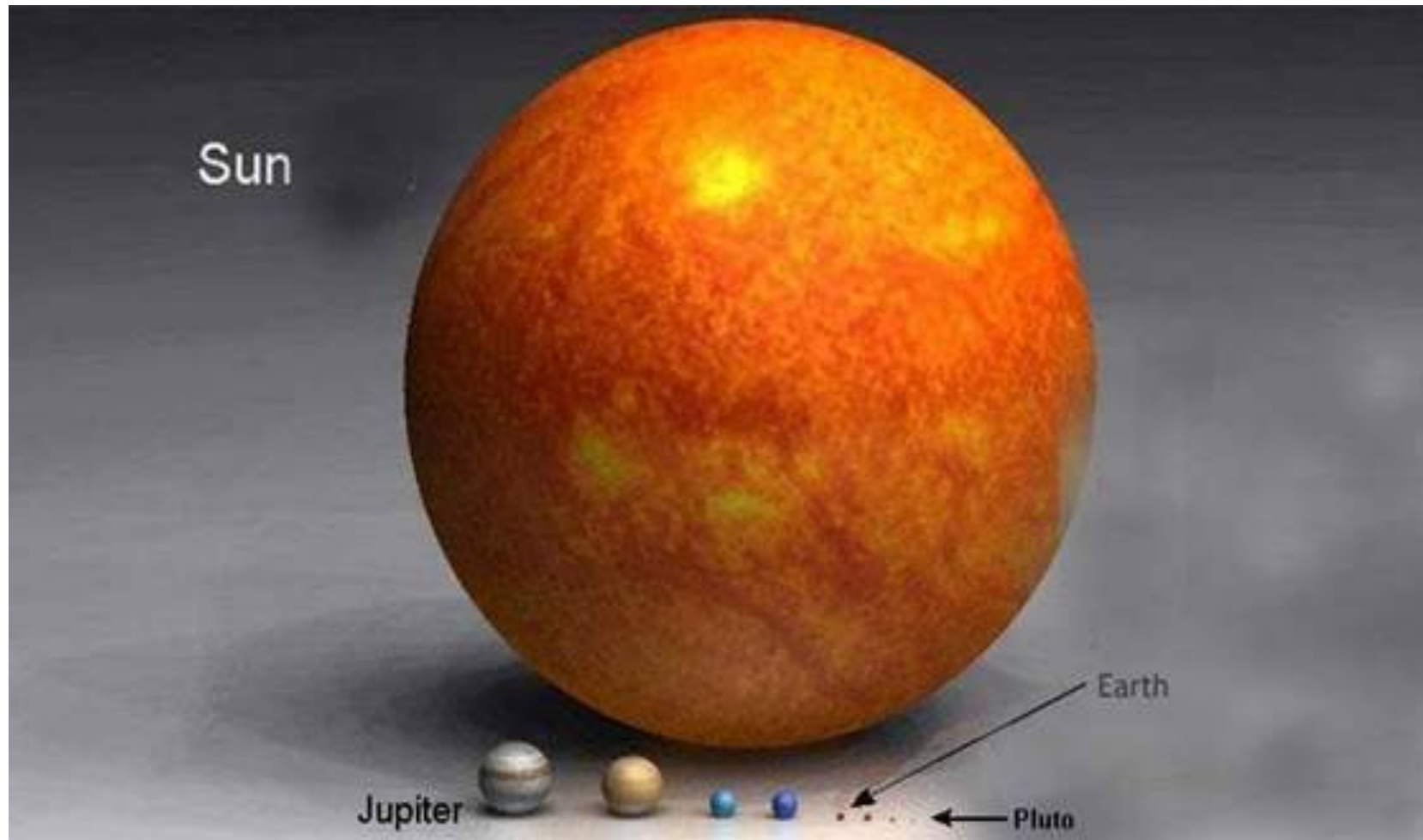
- **Regional “fine-tuned” factors to support life – “Just right!”**

Proper type of galaxy

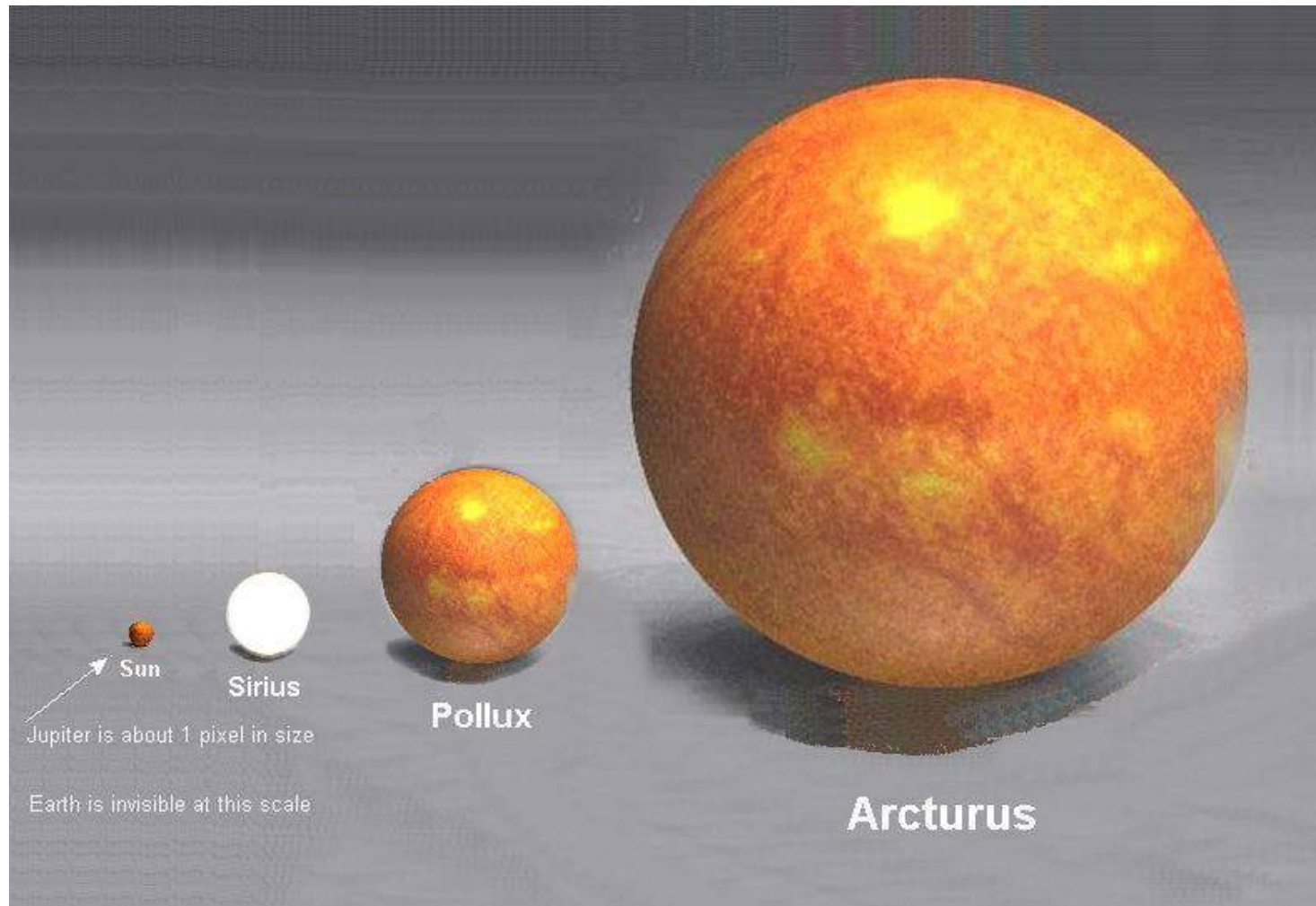
Proper place in the galaxy

Proper kind of star (Our Sun)

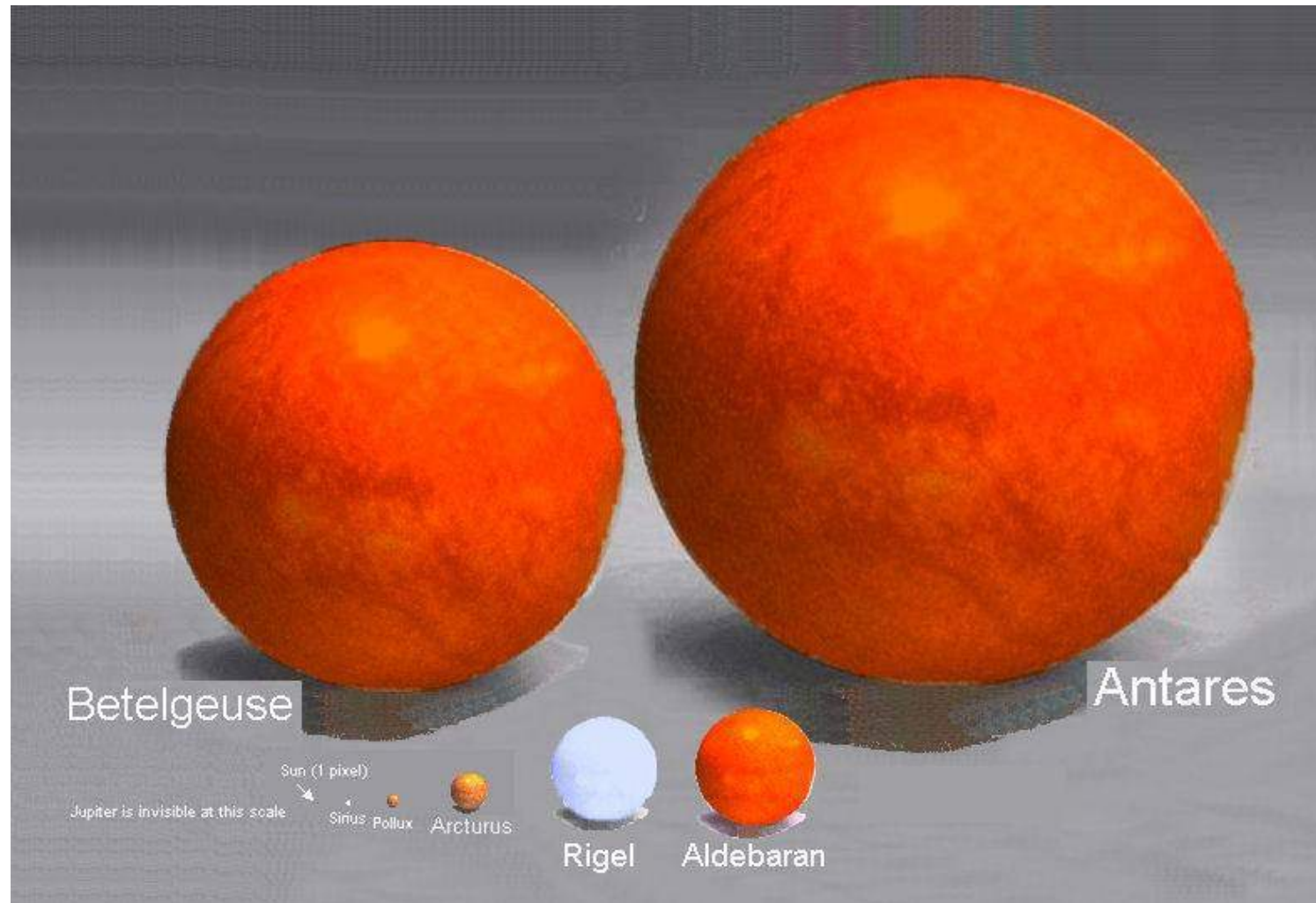
Design in the Universe



Design in the Universe



Design in the Universe





Design in the Universe

- **Regional “fine-tuned” factors to support life – “Just right!”**

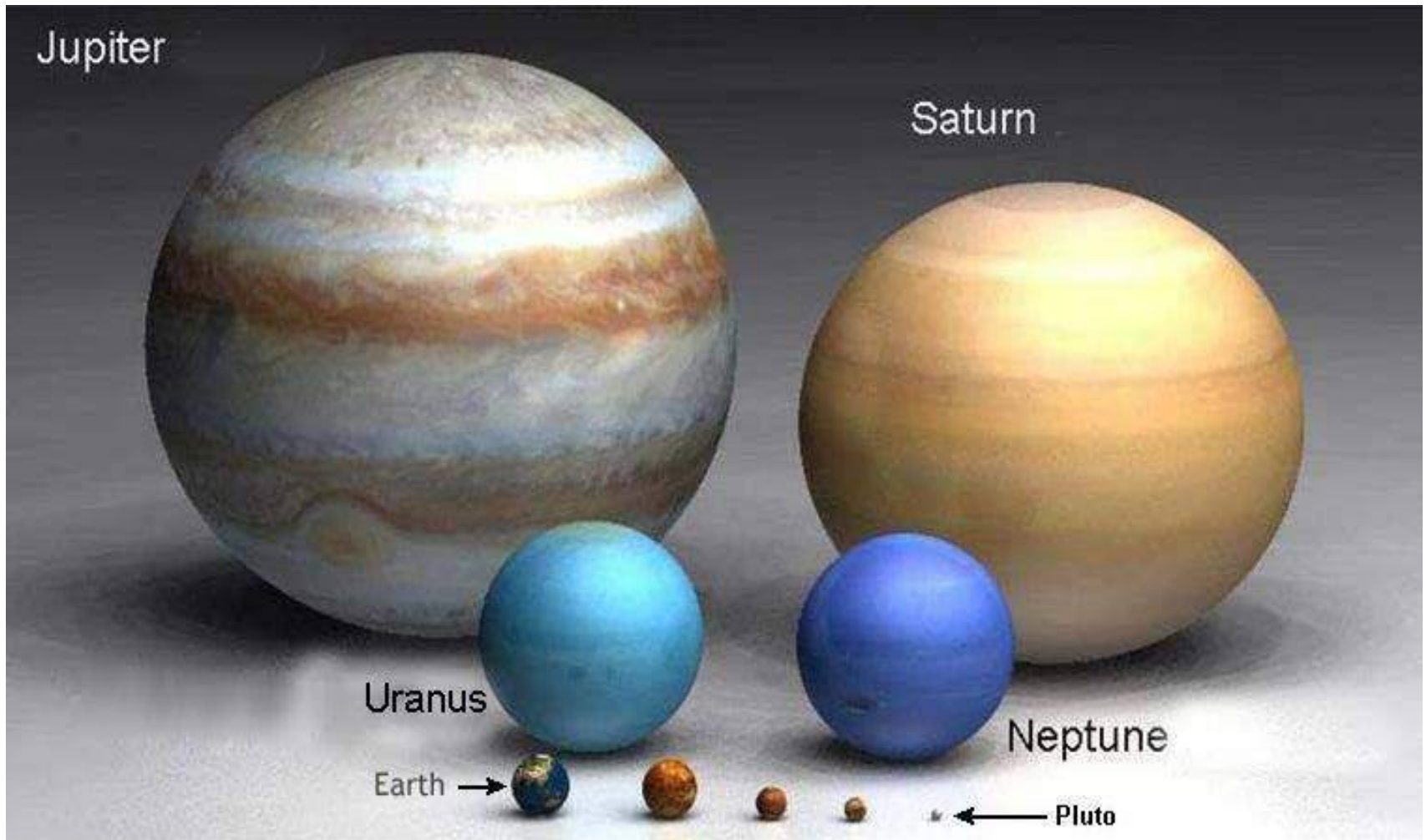
- Proper type of galaxy

- Proper place in the galaxy

- Proper kind of star (Our Sun)

- Proper mass of our planet**

Design in the Universe





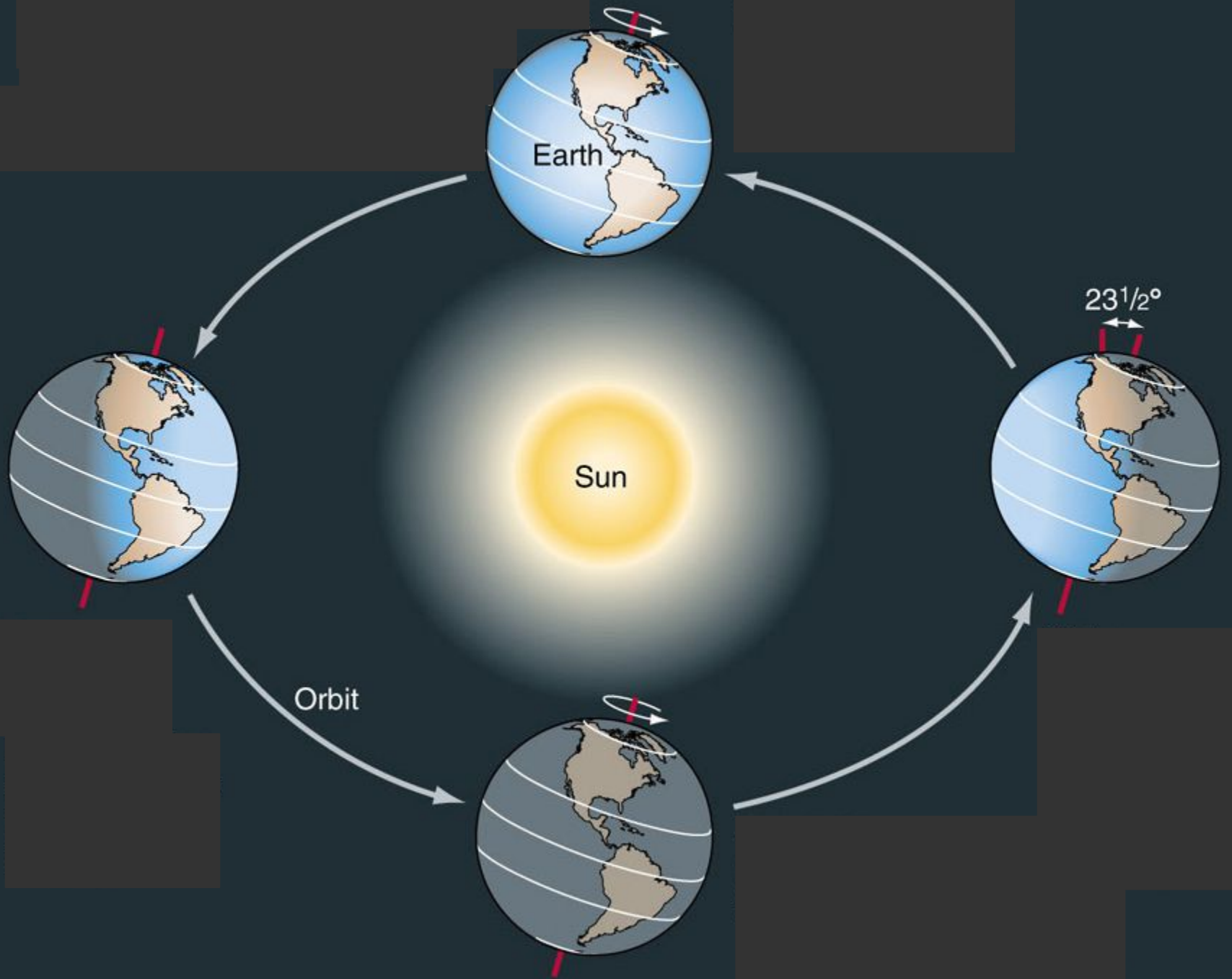
Design in the Universe

- **Locational “fine-tuned” factors to support life**

Just the right distance from the Sun

Just the right spin

Just the right tilt





Design in the Universe

- **Locational “fine-tuned” factors to support life**

Just the right distance from the Sun

Just the right spin

Just the right tilt

Just the right Moon

Just the right atmospheric conditions

Just the right terrestrial crust

140 MORE!!!



Design in the Universe

WATER!!!

- Covers more than 70% of the Earth's surface
- Most plants and animals contain more than 60% water by volume

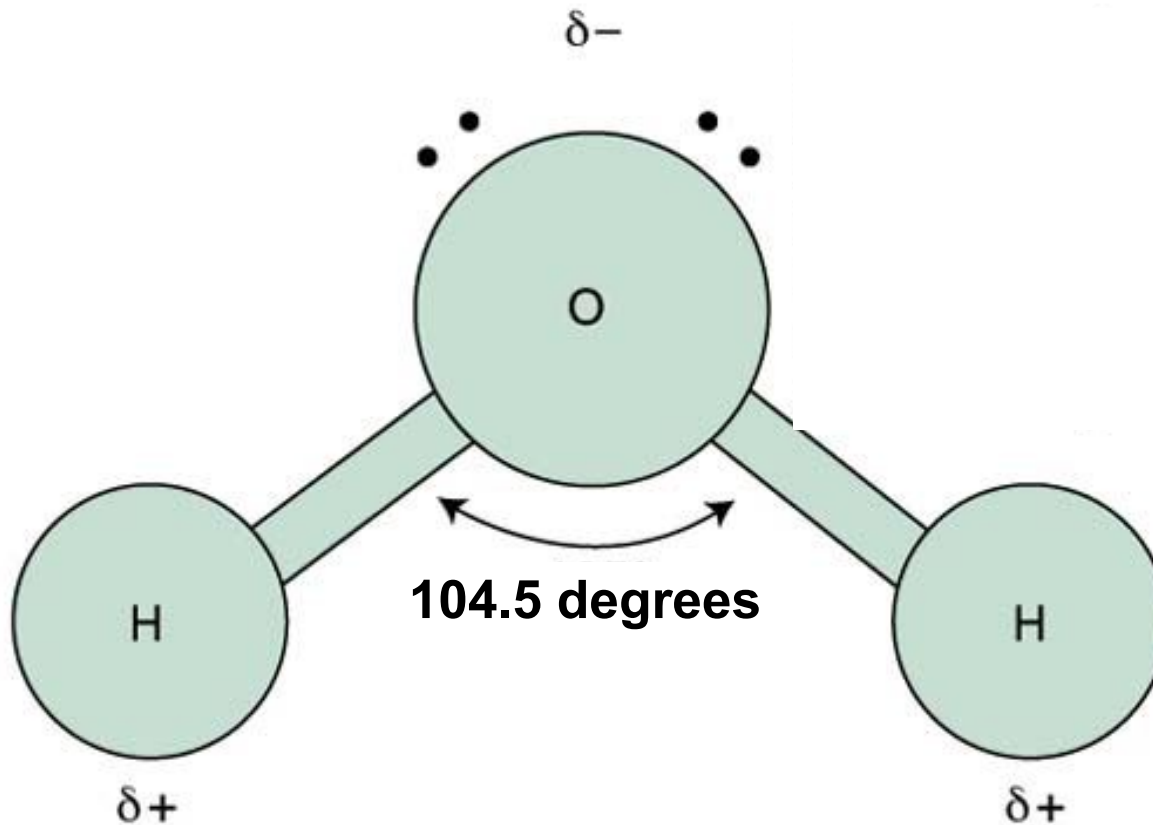


Design in the Universe

WATER!!!

- **A unique structure**

Unique Structure of a Water Molecule





Design in the Universe

WATER!!!

- **A unique structure**
- **Only substance on Earth that exists in all three states:
solid, liquid and gas**
- **Uniquely high specific heat**



Design in the Universe

WATER!!!

- **Wide temperature range for liquid (0 – 100 degrees C)**
- **Less dense as a solid!!**
- **Universal solvent**
- **High surface tension, cohesion and adhesion**

Is It Reasonable to Believe in God in this Scientific Age?

- **Everywhere we look, from the macroscopic to the microscopic things look like they are MADE**
- **A loud, clear, piercing cry of DESIGN!!**

(M. Behe, [Darwin's Black Box](#))



**Is It Reasonable to Believe in
God in this Scientific Age?**

**It is more
reasonable
than ever!!!**