

Exhibit 9 Originality / Creativity

The rope model of light and gravity – henceforth *The Rope Hypothesis* – is a **PHYSICAL explanation whereas Mathematical Physics is a **MATHEMATICAL** description.**

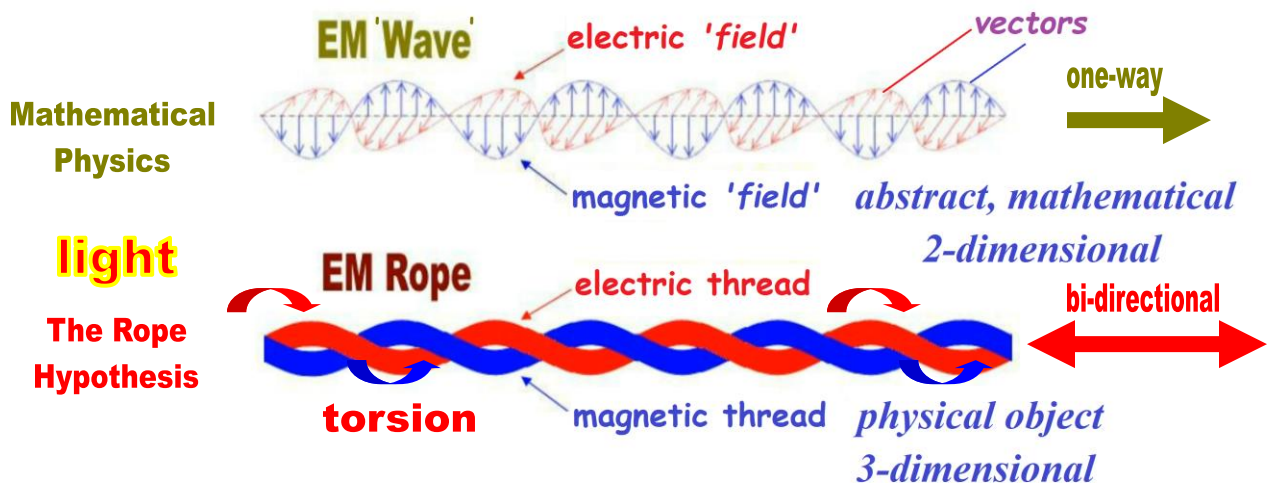
Light (side by side comparisons)

Mathematical Physics

Mathematical Physics and all dissidents propose that light consists of discrete particles that flow one-way from A to B. An alternative version has it that light consists of a pair of orthogonal transverse waves also traveling one way from the atom outwards. This is what is taught in every high school on the planet. All textbooks of physics have illustrated light as either waves or particles for the last 400 years.

The Rope Hypothesis

The rope model of light and gravity proposes that all atoms in existence are interconnected via a *physical* elongated mediator. This physical mediator consists of a twined pair of threads: a DNA-like rope. Light consists of a torsion of the electromagnetic (EM) rope. Torsion explains the enormous speed of light and why frequency (f) is inversely proportional to wavelength (λ) [$c = f \lambda$]



Torsion is the fastest mechanism known to Man. Nothing beats a torsion 'wave' !

[$c = f \lambda$ is the equation of a rope !]

Video showing dynamic versions (15 seconds)

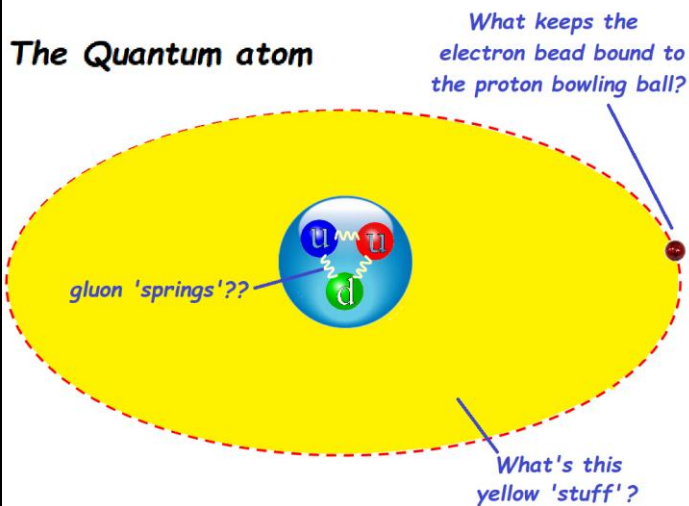
Side by side comparisons: **Mathematical Physics** v. ***The Rope Hypothesis***

Watch: <https://www.youtube.com/watch?v=oTvMa9Xl8vY>

Atomic architecture (side by side comparison)

Mathematical Physics

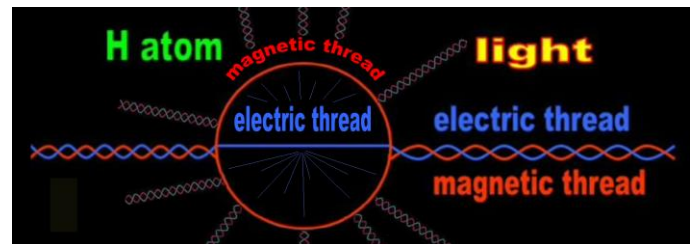
Mathematical Physics and all dissidents postulate and widely use the planetary model of the atom to explain phenomena such as ionization, quantum jump, and electricity. The atom consists of a discrete bead known as an electron which is negative (a meaningless term in Physics). This bead can be found somewhere around the positive proton: a discrete bowling located in the center of the atom. An alternative version never used has it that the electron is a mathematical cloud or region (energy level, orbital) in which the electron bead may be found.



The Rope Hypothesis

The rope model of light and gravity proposes that all atoms in existence are interconnected via a *physical* elongated mediator. This physical mediator consists of a twined pair of threads: a DNA-like rope. Light consists of a torsion of the electromagnetic (EM) rope. Torsion explains the enormous speed of light: the disturbance 'travels' bidirectionally.

The rope model proposes that an electron is a physical membrane, balloon, or shell that encapsulates the proton dandelion, star, or sea urchin located at the center of the atom. The electron and the proton are weaved by the same threads that make up the EM rope. There is a single closed-loop thread that makes up all matter in the Universe.



Atomic Structure/Architecture/Construction

Video (57 seconds)

Side by side comparisons: **Mathematical Physics** v. *The Rope Hypothesis*

Watch: <https://www.youtube.com/watch?v=QBk0e6HrGCg>

Quantum Jump (side by side comparison)

Mathematical Physics

Mathematical Physics explains quantum jump as the back and forth movement of the electron bead between 'energy levels'. When the electron quantum jumps, the atom emits one-way photons (waves or particles of light).

The Rope Hypothesis

Under the rope model, quantum jumping consists of expansion and contraction (pumping) of the electron membrane, balloon, or shell. When the electron expands and contracts, the atom torques the EM rope. Light consists of torsions of the EM rope.

Quantum Jump

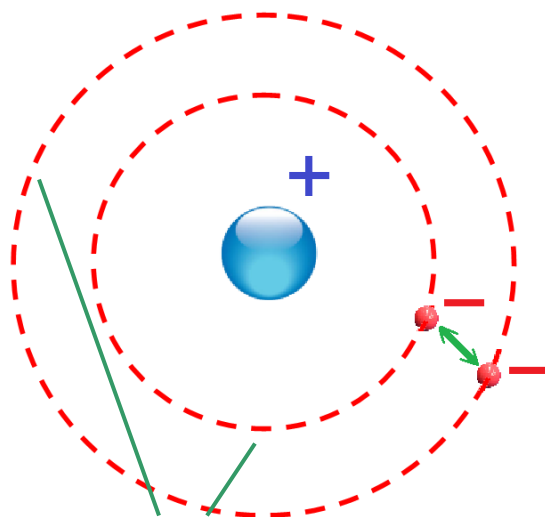
Video (26 seconds)

Side by side comparisons: **Mathematical Physics** v. *The Rope Hypothesis*

Watch: https://www.youtube.com/watch?v=tRB0iiqO9_I

Mathematical Physics Quantum Jumping

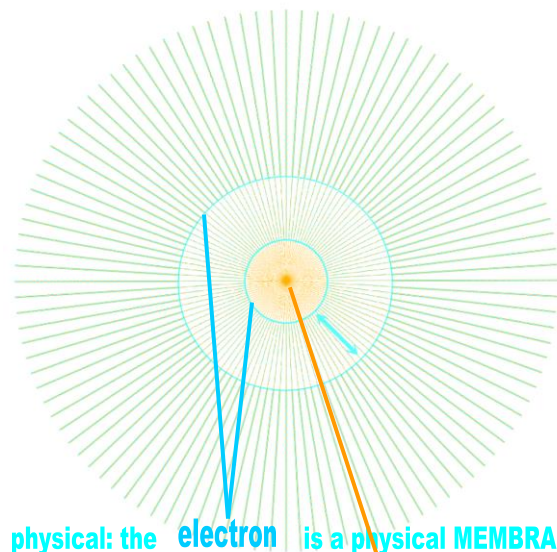
The electron bead jumps back and forth between energy levels.



conceptual: energy levels, orbitals = regions
WHERE the electron bead can be found

The rope model of Quantum Pumping

The electron shell / membrane expands and contracts

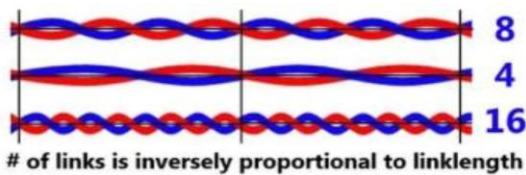
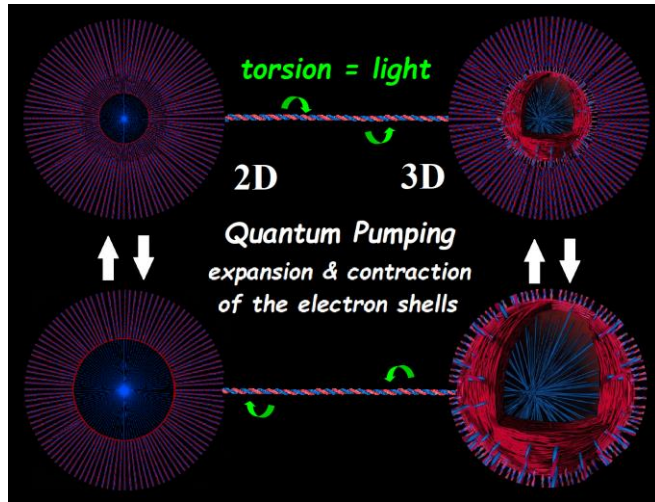


physical: the electron is a physical MEMBRANE
that encapsulates the proton STAR,
both made of threads that also constitute the
EM rope

Quantum Jumping [rope model = pumping]

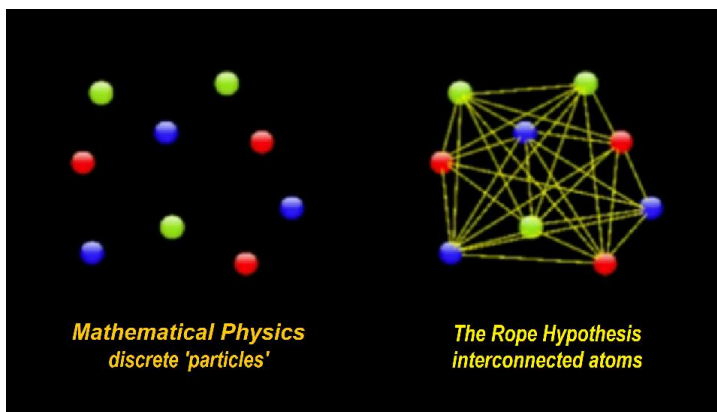
Expansion and contraction of the electron *membrane* that encapsulates the proton *star*, each made from countless, *physical threads* of the EM *ropes* converging on our atom from every atom in the Universe. This ‘quantum jump’ torques the rope between any two atoms. It is this torsion that we call *light*.

Torsion is the fastest mechanism known to Man, in great measure, because the mediator doesn’t go anywhere. A rope torques *in situ*. It is the ‘disturbance’ that ‘propagates’. The speed of torsion of the EM rope explains the fantastic speed of light.



The wave equation [$c = f \lambda$] is the equation of a rope. Only a rope can physically simulate why frequency [*i.e.*, *number of links*] is inversely proportional to wavelength [*i.e.*, *link length*].

The rope model explains why the speed of light is constant and independent of the movement of the source. An atom is a tiny heart perpetually *pumping* torsion ‘waves’ to and from every atom in the Universe as it slides along [eats into] the threads of the rope that also comprise it.



All matter and ‘energy’ [*i.e.*, *light*] in the Universe consists of a single closed-loop *physical* thread. The Single Thread constructs every atom and every interconnecting rope in existence. In contrast, Mathematical Physics proposes discrete particles.

Electricity (side by side comparison)

Mathematical Physics

Mathematical Physics explains electricity as the one-way flow of discrete electron beads from one atom to the next. The 'negative' electron corpuscles travel to the positive pole of the circuit. 'Holes' (absence of electrons) travel in the opposite direction.

The Rope Hypothesis

The Rope Hypothesis proposes that the physical electron shells of different atoms merge to form a conductor. These long molecules spin *in situ* clockwise (CW) and counterclockwise (CCW). Electricity is torsion of interconnected merged shells all around a circuit. Mathematical positive and negative are actually physical CW and CCW spins.

Electricity (Current)

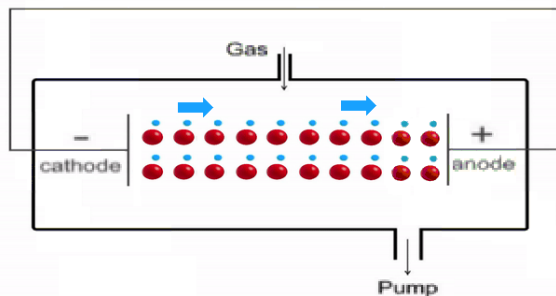
Video (41 seconds)

Side by side comparisons: **Mathematical Physics** v. *The Rope Hypothesis*

Watch: <https://www.youtube.com/watch?v=iuL8ENNOipM>

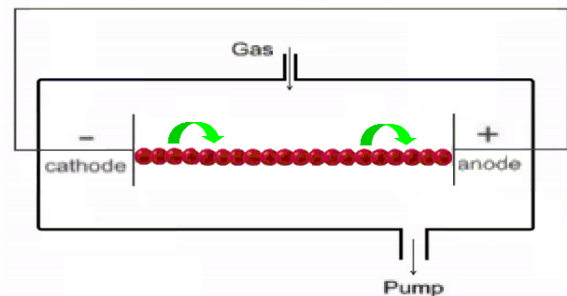
Mathematical Physics (electricity)

flow of electron beads from atom to atom and from 'negative' pole to 'positive' pole



The rope model of electricity

in situ spinning [CW vs CCW] of merged electron shells



Magnetism (side by side comparison)

Mathematical Physics

Mathematical Physics has no physical interpretation for magnetism.* It *describes* that discrete electron beads of one magnet spin in the same direction as those of the one it attracts. In the video below, Nobel Prize Richard Feynman confesses that Mathematical Physics has no explanation for the mechanism of attraction.*

* Listen to Richard Feynman's testimony:

https://www.youtube.com/watch?v=MO0r930Sn_8



The Rope Hypothesis

The Rope Hypothesis proposes that long molecules comprised of merged electron shells spin *in situ* to produce electricity. When they do, they swing around themselves the threads that comprise the electron membranes that encapsulate the atoms and the ropes that interconnect them. If the countless walls of threads of two magnets spin in the same direction (e.g., CW) the magnets attract. If the threads swing in opposite directions (e.g., CW vs. CCW), the magnets repel each other.

Rope model of magnetism

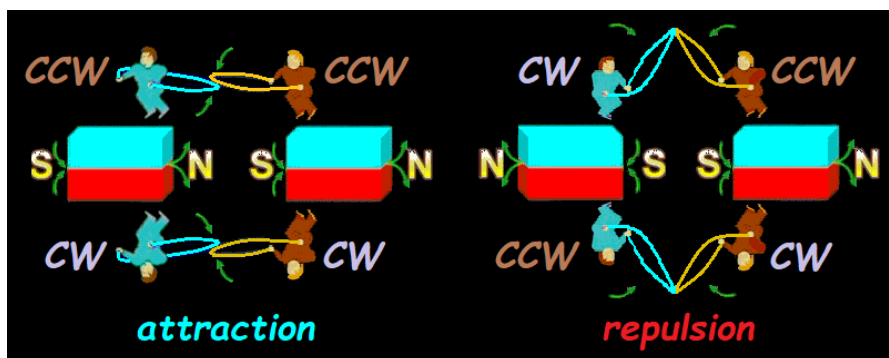
Watch: <https://youtu.be/Pq9wDVFaJYo?t=1206>

Start video at 20:00 minutes for full explanation

Reel Physics (cartoon – short version – 3 minutes)

<https://www.youtube.com/watch?v=PLb6aDGYYTg>

The rope model of magnetism



Attraction: When the threads swing in the same direction (e.g., CCW), the ones coming up on the right magnet latch on to the threads coming down in the second magnet. The threads on the bottom half of each magnet swing in exact opposite directions.

Repulsion: When we turn the first magnet around 180°, the direction of the threads go from CCW to CW. Now the threads of each magnet clash and push the magnets away.

Gravity (comparison: Mathematical Physics vs. *The Rope Hypothesis*)

Watch: <https://www.youtube.com/watch?v=CvWeYJg9Oxs>

Mathematical Physics
physical interpretation of gravity
warped space-time

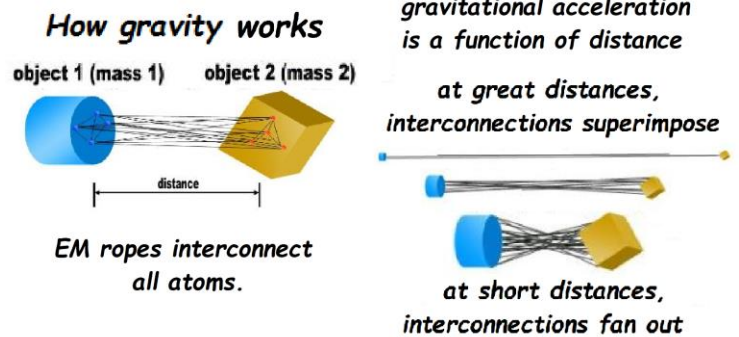
The Sun weighs down the 'canvas'
(abstract mathematical concept) of space-time.
The Earth rolls or slides around this depression
like a ball around a roulette.

Why the Earth does not leave the Solar System



The rope model of gravity
assumption: all atoms are *physically*
interconnected

Gravitational acceleration: As an object
approaches another, the EM ropes that
interconnect them fan out. Thus,
more independent ropes increasingly
participate in the tug-of-war.



Why the Earth does not leave the Solar System

