

Crossing the Event Horizon

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Part 1: The Untold Physics **Chapter 1 – Understanding Dimensions**

Background:

In the presentation Nassim explains his trials and errors in attending formalized school as a young child of only 7 years of age. He was always questioning areas of the curriculum that did not resonate with his *inner knowing*, nor with his unusual *multi-dimensional* experiences, therefore, by 16 years of age he dropped out of school and started his path of self-education and exploration, seeking to validate the theories that were coming to him as information from the *universal sources* he did not quite understand.

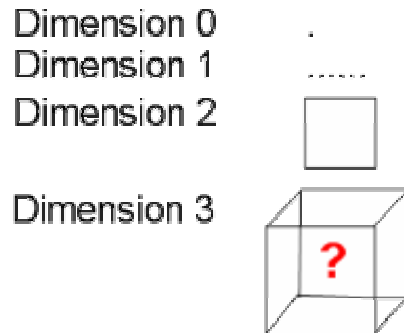
One of the first examples shown in the video involved his first class in geometry, which his teacher stated would be about *dimensions*. Nassim was very excited to start this class as he was hoping to finally understand these different *dimensions* that he experienced every day. However, disappointment and confusion soon resulted as the teacher attempted to explain the lesson. Even though the information did not make sense to him, Nassim was really trying to understand it.

On his long bus ride home, which he stated was about 90 minutes, he left his body (*out of body experience*) and was shown the entire universe in a version that had a black hole in the center of every star, planet and galaxy. While traveling back he saw the bus from above and then looked at his hand and saw the *black hole* or *still point* in the center of his cells and even the atom.

Excitement about this experience and the answers he was shown to his questions from the classroom kept him in a state of wonderment and was a new beginning for this young child. His mind continued to expand on this universal view and he continued to receive new information with astounding answers throughout his life. Nassim has organized all these patterns and relationships of universal interconnections into a working *Unified Field Theory* that has been presented for peer review over the past year and is ready for publishing in the journals.

The Lesson:

Dimensions



**D-0 - doesn't exist, D-1 made from the dots in D-0 doesn't exist, D-2 lines made from the dots in D-1 doesn't exist.
D-3 from the non-existent lines in D-2 DOES EXIST!**

As we viewed the first chart on the screen and listened to Nassim's description of the event, the reason for the frustration was quite obvious. Dimension 3 is the only part of the diagram that exists due to the VOLUME, but according to the teacher, it is made from non-existent dots and lines from Dimension 0, Dimension-1 and Dimension-2. This is where the confusion starts.

Since all practical applications of science are based on the visible world and replication of results, which can be visually observed, the errors in the basic *axioms* are and were obvious to Nassim. The visible *spectrum* of light is a very narrow portion of the full light spectrum. Many tools have been developed over the years that allow scientists to see some of the other spectrums, such as infra red etc. These would have been classified as the unseen dimensions of reality or the invisible spectrum without the tools.

The following press release is a good example that shows solar neutrinos (which were formerly invisible in Dimension 0, have a mass and this new observation will require an extension to the *Standard Model of Particles and Fields*.

Update: June 18, 2001

**SUDBURY NEUTRINO OBSERVATORY FIRST RESULTS: NEUTRINOS HAVE MASS
EQUAL TO COMBINED MASS OF ALL VISIBLE STARS IN UNIVERSE**

After more than a year's worth of data, the first results are in from the Sudbury Neutrino Observatory (SNO) and a mystery that has vexed scientists for more than 30 years has been solved. SNO's results indicate that solar neutrinos have a mass and will require an extension to the Standard Model of Particles and Fields which has successfully explained fundamental physics since the 1970's. SNO's first results when combined with the Super Kamiokande's results

definitively demonstrate that solar neutrinos are "oscillating" or transforming from one kind to another in transit from the core of the sun to the earth.

"When we combine the SNO results for electron-neutrinos with previous measurements, we can say with greater than 99-percent confidence that solar neutrinos are undergoing changes on their way to Earth," says Kevin Lesko, a physicist with the Lawrence Berkeley National Laboratory (Berkeley Lab) and a key member of the SNO research collaboration. "The measurements by SNO also provide a limit on the difference in mass between electron-neutrino and the other flavors of neutrino that are involved."

This mass difference, coupled with absolute neutrino mass measurements and the Kamiokande's measurements, indicates that the combined mass of all the neutrinos in the universe is about equal to the combined mass of all the visible stars. That also means neutrinos cannot account for all the "dark matter" known to make up most of the mass of the universe.

Lesko, leader of the Neutrino Astrophysics Group in Berkeley Lab's Nuclear Sciences Division, has been a key member of the huge SNO collaboration since 1989. He oversaw the design and construction of the geodesic sphere and panel arrays which house SNO's elaborate web of ultrasensitive photomultiplier tubes (PMTs), working closely with Gary Koehler of Berkeley Lab's Engineering Division who served as the SNO project's senior designer, and Yoichi Kajiyama who was the project's lead mechanical engineer.

Lesko can be reached for an interview at (510) 486-7731 or by e-mail at KTLesko@lbl.gov. Berkeley Lab has additional information as well as downloadable images online at <http://www.lbl.gov/Science-Articles/archive/sudbury-results.htm>

For the official SNO press release and a copy of the science paper, see <http://snohp1.lbl.gov/> Also see the SNO group home page at <http://www.sno.phy.queensu.ca>.

Since neutrinos are light particles that travel from the core of the sun to earth, we could clearly state that they would reside in Dimension-0, therefore they do exist and they do have mass.

However, they are still not the smallest particles in creation. The **Higgs-Boson** particle that scientists will be attempting to find at the Fermi Lab and with the new Super Conductor Particle Accelerator being built at CERN in Switzerland would fit that description and may end up being classified as the Dimension-0 **God Particle**, as it has already been dubbed in the following article.

Science Update: September 24, 1998
Atoms will move faster at Fermilab.

BATAVIA, ILL. (UPI) U.S. Energy Secretary Bill Richardson, screwed the final bolt on a 20 ton magnet that will power an atomic accelerator to help physicists search for what one Nobel prize winner has called the "God Particle".

The magnet is part of a \$229 million research project. It will propel atoms at the speed of light

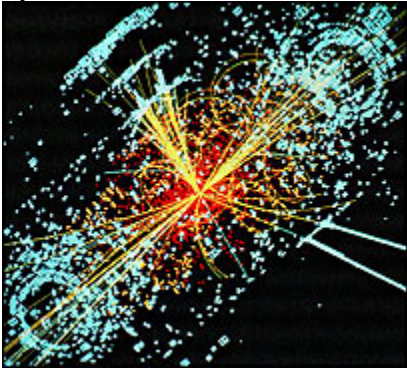
from a main injector that scientists at Fermi National Laboratory hope will help them discover the smallest particle of matter.

Sen. Carol Moseley-Braun, D-Ill. was on hand for the event. She said, "We stand today at the threshold of a new frontier in scientific research. I am proud that Fermilab will remain in the forefront of high energy physics research."

Researchers hope the new equipment will help them find a particle that is crucial to understanding why the universe has mass. Former Fermilab director, Mr. Lederman has called it the "God Particle".

March 10, 2004, BBC News
'God Particle' May have Been Seen

By Paul Rincon



Once produced the Higgs boson would decay very quickly.

A scientist says one of the most sought after particles in physics, the Higgs boson may have been found, but the evidence is relatively weak. Peter Renton, of the University of Oxford, says the particle may have been detected by researchers at CERN, an atom smashing facility in Switzerland.

The Higgs boson explains why all other particles have mass and is fundamental to a complete understanding of matter. Dr. Renton's assessment of the Higgs hunt is published in Nature magazine. His paper in the journal reviews the current state of play. "There is certainly evidence of something, whether it is the Higgs boson is questionable," Dr. Renton, a particle physicist at Oxford, told the BBC online. "It's compatible with the Higgs boson certainly, but only a direct observation would show that."

If correct, Dr. Renton's assessment would place the elusive particle's mass at about 115 gigaelectronvolts.

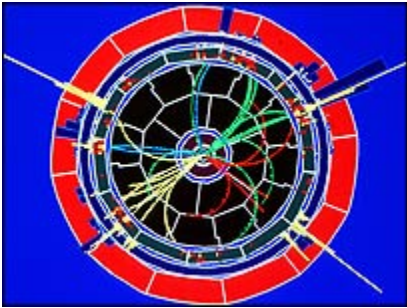
Unstable Particle

This comes from a signal obtained at the large electron positron collider (LEP) in Geneva, Switzerland which has now been dismantled to make way for its replacement, the large Hadron Collider. (LHC) However, there is a 9% possibility the signal could be background noise.

Before the LEP accelerator was decommissioned, physicists used it to send particles called electrons and positrons careening in opposite directions around its circular pipe, which had a circumference of about 27k. When these particles collided, they created bursts of high energy. Such collisions themselves are too small to study, but new heavier particles can appear amongst the debris.

The Higgs boson is thought to be highly unstable, and once produced, should quickly decay. Dr. Renton cites indirect evidence taken from observations of the behavior of other particles in colliders that agrees with the figure of 115 gigaelectronvolts for the Higgs boson.

“Its controversial. The data is possible indicative, but needs confirmation,” said Bryan Webber, a professor of theoretical physics at the University of Cambridge. “Its mass is right at the maximum energy they could run the LEP at. But the indirect indications are that the Higgs boson should be close to that value.”



The LEP's huge ring was used to study the Particles in our universe.

Mass giver

Physicists have observed 16 particles that make up all matter under the Standard Model of fundamental particles and interactions. But the sums do not quite add up if these particles are considered alone. If only 16 particles existed, they would have no mass, contradicting what we know to be true in nature.

THE STANDARD MODEL

	Fermions			Bosons	
Quarks	u up	c charm	t top	γ photon	Force carriers
	d down	s strange	b bottom	Z Z boson	
Leptons	ν_e electron neutrino	ν_μ muon neutrino	ν_τ tau neutrino	W W boson	
	e electron	μ muon	τ tau	g gluon	
				H Higgs boson*	

*Yet to be confirmed

Source: AAAS

Another particle has to give them this mass. Enter the Higgs boson, first proposed by University of Edinburgh physicist Peter Higgs and colleagues in the late 1960's.

Their theory was that all particles acquire their mass through interactions with an all pervading field, called the Higgs field, which is carried by the Higgs boson. The Higgs importance to the Standard model has led some to dub it "**the God Particle.**"

Dr. Renton said he hoped that once the large hadron collider was up and running in 2007, the Higgs boson would be detected within a year or two. The LHC is a more energetic accelerator which will allow a much higher mass range to be explored. It will also be capable of producing much more intense particle beams which means that data can be aggregated much faster.

It is also possible the Fermi National Accelerator Laboratory outside Chicago, US, could make the discovery. Researchers there are hopeful they can secure enough data to prove the Higgs' existence before the LHC comes online.

How do we reconcile foundational errors?

Teaching measurement of space with these fundamental axioms has affected how physics has developed as a subject and also the concepts of quantum space and the concepts of boundaries. The continuing scientific discoveries, some of which are included in this lesson provide the new information that would change these axioms, but takes a long period of time for acceptance and even longer to reach the classrooms.

A timely solution might be the use of the Internet for approved e-learning courses for grades K-12, which could be updated rather quickly providing a viable solution to these issues for education in the future.

Conclusion:

As we progress through Nassim’s course it will become obvious that all matter at every level of reality from the sub-atomic particles to the stars in space started from that single dot, which Nassim proposes to be located in the center of atoms, cells, planets and galaxies as the *still point* or *void* from which all potential probabilities, experiences and matter manifests.

Questions: Check mark your answers.

1. **If Dimension 0 is the dot, would that also be the zero point energy?**
 _____ True _____ False
2. **Current physics adequately explains the zero point or non-existent energy?**
 _____ True _____ False
3. **The single dot is the zero-point energy and also a black hole?**
 _____ True _____ False
4. **The smallest sub-atomic particle which could emerge from the single dot of Dimension 0 is which of the following?**
 _____ Neutrino _____ Higgs boson particle

Glossary:

Inner knowing: adj. 1. located or occurring farther inside as “inner room”. 2. Less apparent; deeper ;”the inner meaning of a poem.” 3. **Of or pertaining to the spirit or mind.**

Multi-dimensional experience: The feeling of being in unlimited dimensions with no outer boundaries. The magnitude, size and scope have unlimited spatial extent.

Universal Sources: of or pertaining to information and experiences coming from the cosmos, cosmic. A general or abstract concept or term considered absolute or axiomatic.

Dimensions: 1.a measure of spatial extent, esp. width, height, or length. 2. Extent: magnitude, size, scope. 3. Math: any of the least number of independent coordinates required to specify a point in space or, the range of any of these coordinates. 4. Physics: A physical property, often mass, length, time, or a combination thereof, regarded as a fundamental measure or as one of a set of fundamental measures of a physical quantity: *Velocity has the dimensions of length divided by time.*

Black hole: A small celestial body with an intense gravitational field that is believed to be a collapsed star. (current theory)

Still point: Absolute stillness, silence, static, no movement.

Unified Field Theory: A physical theory that combines the treatment of two or more types of fields in order to deduce previously unrecognized interrelationships, esp. such a theory unifying the theories of nuclear, electromagnetic and gravitational forces.

Axioms: 1. A self-evident or universally recognized truth; maxim. 2. An established rule, principle or law. 3. Math & Logic. **a.** An undemonstrated proposition concerning an undefined set of elements, properties, functions, and relationships; postulate. **b.** A self-evident or accepted principle.

Spectrum: 1. Physics. The distribution of a characteristic of a physical system or phenomenon, esp. a. The distribution of energy emitted by a radiant source, a by an incandescent body, arranged in order of wavelengths. b. The distribution of atomic or sub-atomic particles in a system, as in a magnetically resolved molecular beam, arranged in order of masses. c. A graphic or photo representation of such a distribution. 2. a. A range of values of a quantity or set of related quantities. b. A broad sequence or range of related qualities, ideas, or activities.

Higgs boson particle: Physicists have observed 16 particles that make up all matter under the Standard Model of fundamental particles and interactions. But the sums do not quite add up for the Standard Model to be true if these particles are considered alone. If only 16 particles existed, they would have no mass - contradicting what we know to be true in nature. Another particle has to give them this mass. Enter the Higgs boson, first proposed by University of Edinburgh physicist Peter Higgs and colleagues in the late 1960s. Their theory was that all particles acquire their mass through interactions with an all-pervading field, called the Higgs field, which is carried by the Higgs boson. The Higgs' importance to the Standard Model has led some to dub it the "God particle".

Still point: Absolute stillness, silence, no movement.

Void: Containing no matter; empty