
NEWS FROM ANCIENT INDIA

This epistemological study of the astronomical calendar of the Rig-Veda is dedicated to the successful Chandrayaan 2 mission and to the heroes of 9/11

Pierre Beaudry, 9/11/2019

FOREWORD

“The Age of Reason Is in the Stars!”

Helga Zepp-LaRouche

How can you examine the truth about a period of history which has been forgotten for thousands of years, and how can you explore past discovered principles that made human economics grow in spite of very evil proclivities?

For example, the Sumer culture was destroyed more than four thousand years ago by an early geopolitical policy of population reduction. However, my greatest surprise about this culture is that it could be rediscovered and restored to its original state only by means of what Lyndon LaRouche identified as a *discovery of principle*.

The so-called “language isolate” of Sumer was not such a closed system as most western archeologist claimed it was; at least it was not closed to an inquisitive mind. The Sumerians had their origins in India where “*the ultimate truth is brought forth through the medium of seven-fold speech*,” (Hymn 8-59) as the Rig Veda claimed it was more than five thousand years ago.

The question is: what is the original *discovery of principle* that gave rise to ancient civilizations and how can such a principle help join our different human cultures together into a common aim of mankind today?

INTRODUCTION

“The present, crucial, and immediate practical importance of exploring the matters just outlined, is shown by considering today’s deadly threat of generalized religious and related types of warfare. At the present moment, this threat is best typified by the military-utopian doctrine best known as Brzezinski-Huntington-Bernard Lewis “Clash of Civilizations” strategy. Therefore, now, as for the 1648 Treaty of Westphalia, it is of more than collateral importance, that an ecumenical “peace among faiths” policy be nourished, first and foremost, among those religions which accept the notion of man and woman as made equally in the likeness of the Creator of the universe. We must proceed from that starting-point, to explore a still deeper basis for a broader, more universal accord. This basis can be found only in a rigorous conception of the coherence of a provable universal principle of spirituality with the universality of the physical domain.”

Lyndon LaRouche¹

The irony about ancient calendars is that they had nothing to do with calculating linear time; they were about how to measure the human mind’s ability to *hypothesize the higher hypothesis*.

The present report is an experiment in learning how the unity of mind and matter, or “matterofmind”, comes together in the form of changing the past through a restoration of the truth about ancient civilizations.

As Lyn suggested in his July 2002 report titled: [**CHALLENGE TO PEACE**](#), it is crucial to lay down the principle of lasting peace among the different faiths of the world in order to prevent the return of a new hundred year’s war of religions. The way to accomplish that is to make a discovery of principle in physical economic development involving all of mankind, directly.

¹ Lyndon LaRouche, [THE CHALLENGE OF PEACE. For the Christians, for Example](#), EIR, June 16, 2002, p. 13.

However, such a development through peace can only be secured by you and me and by anyone else who is willing to stand up for the truth about the role that Lyndon LaRouche has played worldwide on fundamental matters of principle. You and I are the only ones who have the courage to tell the truth about how the world suffered, for too long, from the imperial British disease of geopolitics, and from the Satanic proclivity of the Dravidian maritime culture established on the former shores of ancient India.

In 1988, LaRouche identified that the danger was the revival of "...barbaric forms of civilization, and the absolutely terrible religious tradition of Shakti-Siva,"² which had been brought to lower Mesopotamia from India during the fourth and third millennia BC. The time has come to heed LaRouche's warning and to rediscover the *principle of least action* behind ancient civilizations.

The secret of Lyndon LaRouche's idea of discovery of principle is found, as he said, in the hereditary "perseverance of the active principle of that ancient-to-modern connection" between civilizations, which he identified as the connection that some people were able to make in ancient times between the spiritual power of the human mind and the physical universe as a whole.

This principle of connectivity with ancient civilizations is the same that is required to be rediscovered today in, for example, the gap between older and younger generations. This principle can be expressed more generally as the principle of the 1648 Peace of Westphalia, the peace that brought about the political discovery of the "*benefit of the other.*"

THE PARADOX OF SUMERIAN CIVILIZATION

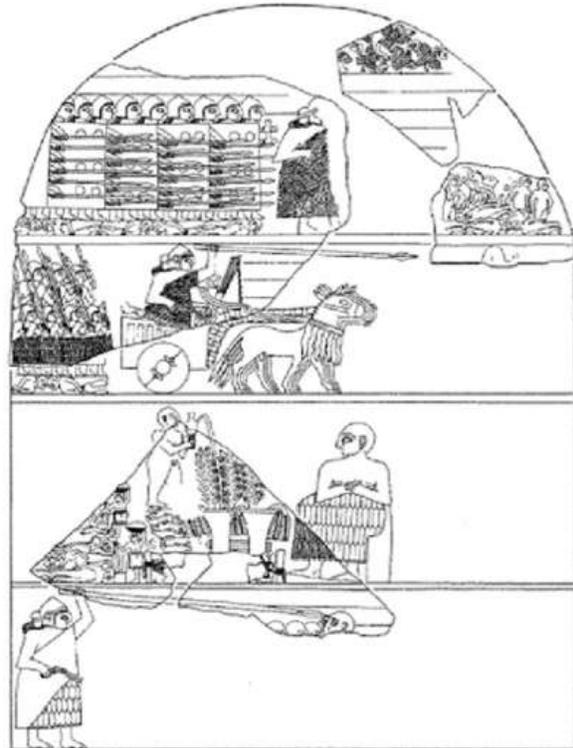
Over five thousand years ago, in a land called Sumer, there emerged a civilization which was located between the Tigris and the Euphrates Rivers in what is known today as Iraq. The Sumerians were remarkable not only for their technological progress such as the invention of writing, irrigation, the potter's wheel, the cart wheel, the plow, and the casting of copper and bronze objects, but, unfortunately, also for their satanic ideas of geopolitics.

² Lyndon LaRouche, [The Tale of the Hippopotamus](#), EIR, February 20, 1998, p. 63.

Up until the 1850's, nothing was known about the Sumerian civilization. It was only in 1877, when the ruins of Lagash were excavated by French archeologist, Ernest de Sarzec, that the dark side of the Sumerians became visible in the discovery of some of their art forms. In 1884, for example, Sarzec discovered the *Stele of the Condors* in Tello, Lagash, making public for the first time in history the full significance of the find.³



Reconstruction drawing, obverse, Stele of the Vultures (drawing by Elizabeth Simpson)



Reconstruction drawing, reverse, Stele of the Vultures

As the obverse side (left) of the stele shows, the god of the Sumerians is holding a bag filled with human body parts. Can such a conception of God and religion be congruent with discoveries of principle for the improvement of mankind?

Sarzec discovered that around 2,450 BC, King Eannatum of Lagash commemorated a major military victory over his enemies, located in the neighboring town of Umma. For that purpose, he had an artist erect a grisly

³ Leon Heuzey, [Découvertes en Chaldée par Ernest de Sarzec](#), Ernest Leroux Editeur, Paris, 1884. See also André Parrot, [Tello](#), Albin Michel, Paris, 1948.

monument called the “Stele of the Vultures,” which not only depicted his victorious soldiers, but also birds of prey feasting on the heads of dead Umma soldiers.



(Erich Lessing / Art Resource, NY)

LIMESTONE STELE FOUND: Girsu, Iraq. CULTURE: Sumerian. DATE: ca. 2450 B.C.
LANGUAGE: Sumerian.

The composition was meant to strike the viewer as a warning sign of what to expect to anyone if one dared to confront King Eannatum’s imperialist idea of power. The artistic composition was obviously created to produce an effect; that is, an axiomatic shock in the minds of the regional population of South West Asia for the purpose of rendering them obedient to the barbarian rules of empire.

What is to be learned about such a commemorative victory is that it is a stark reminder that as cities grew in size, as Lagash and Umma did in ancient Iraq, so

did stupid border conflicts which could last for hundreds of years between neighbours, unless the people were given access to discoveries of principle to be shared by all.

As the Sarzek discovery shows, geopolitics is based on the idea of population reduction and the *Stele of the Vultures* cries out as a crude case of human tragedy as do the Twin Towers of 9-11, today. In case the illustration did not get the point across, the cuneiform writing of the Stele made it explicit: “*Eannatum struck at Umma... the bodies were soon 3,600 in numbers....I, Eannatum, like a fierce storm wind, unleashed the tempest!*”⁴

However, as is the case in all geopolitical warfare, imperial dominance over people cannot last forever. The victory of Lagash over Umma was an early form of the *Thucydides trap* and it lasted long enough for the Sumerian culture to disappear not long after.

Eventually, Umma became stronger than Lagash and defeated its rival with the rise of the Akkadian Empire. The Sumerian culture disappeared without leaving a trace when the Amorites and Babylonians took over during the beginning of the second millennium BC. That tradition of geopolitical warfare continued until the Assyrians became the dominant forces during the seventh century BC.

From that moment on, as historian Samuel Noah Kramer reported: “The very name of Sumer had been erased from the mind and memory of man for more than two thousand years.”⁵ Yet, despite their barbarism, Sumerian culture gave us the wheel, the degree of the angle, and the hour of the day. How could this be possible?

WHAT IS THE PRINCIPLE BEHIND THE DISCOVERY OF THE WHEEL

The real discovery of the wheel is not about the wheel itself. What is significant is the non-visible function of the principle behind the axel that is attached to the wheel.

⁴ *Warfare*, May/June 2016, from ARCHEOLOGY, a publication of the Archeological Institute of America.

⁵ Samuel Noah Kramer, [THE SUMERIANS](#), The University of Chicago Press, Chicago, 1963, p. 20.

What is the use of having a wheel if you don't have a mechanism to make it rotate? In other words, what makes the wheel turn is the *principle of circular action*. It is the discovery of the *axel principle* which is the physical sign of the *least action principle of work*; and that's where LaRouche comes in, because as he reported, the discovery of such a principle by a human mind is very dangerous to an imperial rule: it causes people to think. Listen to what LaRouche had to say about the nature of a *discovery of principle*:

“The most characteristic quality, which thus distinguishes the human species from all others, is that mankind is the only form of life which is capable of willfully increasing its *potential relative population-density*, as this physical effect is measurable per capita and per square kilometer of our planet's surface. This increase occurs through active cooperation in applying universal physical principles originally discovered by what Vernadsky identifies as the *noetic* powers of individual, *voluntaristic* human minds: *cognition as* Plato's Socratic dialogues define the noetic process of *cognition*.

“In so acting on behalf of the principle of cognition, rather than custom, we not only change our species' physical relationship to the universe; we change the universe, in the same sense that living processes transform the Earth from an ostensibly abiotic manifold, that to the effect of increasing the influence of the Biosphere over the processes and condition of the planet as a whole.

“Our species' relationship to the universe at large is thus defined in terms of a social process of *fostering and transmitting experimentally valid discoveries of universal physical principles over the course of successive generations*.”⁶

A discovery of universal principle is what actually defines the valid culture of a people in the course of development of human civilization. It is that conceptual connection which is important to understand concerning the invention

⁶ Lyndon LaRouche, [THE CHALLENGE OF PEACE. For the Christians, for Example](#), EIR, June 16, 2002, p. 14.

⁷ [KIDS' BLOG! The Invention of the Wheel: How the Ancient Sumerians Got Humanity Rollin'!](#)

of the wheel, because this is what defines the universal intention behind the use of the wheel in economics, as a means of improving the condition of mankind as a whole. The invention of the wheel was a means of generating work by way of least action, as LaRouche identified with the minimum-maximum principle of Nicholas of Cusa; that is, *the principle of accomplishing a maximum amount of work with the minimum amount of effort.*

The idea of the fixed axel was discovered shortly after 3,500 BC by a Sumerian economist of ancient Iraq who was thinking like Cusa and LaRouche, when he applied his concept to the potter's wheel.⁷ The idea was a special case of the *coincidence of opposites*; that is, of joining together a square axel end affixed to two circular plates for the purpose of fabricating everyday household objects.



The oldest known wheel in the world. <https://antiquitynow.org/2013/08/20/kids-blog-the-invention-of-the-wheel-how-the-ancient-sumerians-got-humanity-rollin/>

The insertion of a square axel end into a circular horizontal plate made possible the creation of a pottery wheel assembly whereby an artisan could rotate one table with his feet and another at hand level for rounding out clumps of wet clay into objects that had not existed before. The new art of pottery making was created to save both time and energy, and thus, increase the energy-flux density of society as a whole with the use of simply-connected circular action.

This paradoxical idea of a *fixed right axis against simple rotation*, (note the right angle position of the left thumb in the following picture below) allowing the potter to shape vases, bowls, cups and dishes evenly, was a creative idea using the squaring of simply-connected circular action as a basic *coincidence of opposites*

⁷ [KIDS' BLOG! The Invention of the Wheel: How the Ancient Sumerians Got Humanity Rollin'!](https://antiquitynow.org/2013/08/20/kids-blog-the-invention-of-the-wheel-how-the-ancient-sumerians-got-humanity-rollin/)

motion for economic production of household and artistic objects. A similar fundamental principle is still awaiting discovery for the fusion technology of tomorrow based on *multiply-connected circular action*.⁸



“Potter” Image courtesy of
Dan/FreeDigitalPhotos.net <https://www.marianwilliamspottery.com/2011/12/22/dreams/>

It was some time after the discovery of this *least action principle* that someone else discovered how to transform the square axel end into a round one, with the addition of grease and bearings, to help the wheel rotate vertically in order to transport objects from one place to another. This second invention could have been used during the building of the Egyptian Pyramids.

It is not impossible that the invention of the wheel for pottery making was also the source of inspiration for the invention of Sumerian cuneiform writing as well, which was dated only about a century later, in 3,400 BC, when Sumerian

⁸ On the importance of looking for *what is not there*, see my old report: [FUSION POWER IS NOT DEMOCRATIC](#).

scribes began to write a series of business transactions penned with word-syllables on wet clay tablets. Sumerian writing seems to have been first and foremost invented for the purpose of keeping records of economic transactions, such as bills of sale.⁹ The phonetic cuneiform type of language characters became so universally useful that they were adapted to multiple languages and were used for at least a dozen or more different cultures during several thousands of years.



Bill of sale written in cuneiform. <https://www.history.com/news/9-things-you-may-not-know-about-the-ancient-sumerians>

The most fascinating Sumerian invention, however, was the discovery of partitioning circular physical space-time into a sexagesimal system of computation. Such an extraordinary find required an amazing effort of looking for *what is not there* because, of all numbers, 60 was the only one that could accommodate changes in both space and time; that is, in two different dimensionalities simultaneously. Number 60 was chosen for measuring both rotational space and cyclical time, because it was the most effective number to be used for partitioning the changing physical reality of duration and extension at the same time. In other

⁹ <https://www.history.com/news/9-things-you-may-not-know-about-the-ancient-sumerians>

words, this discovery could only have been made on the basis of mental powers capable of investigating a higher dimensionality. The very mental stimulation required to look for such a number suggests that people must have been capable of making *discoveries of principle* of a *doubly-connected circular action* type, a toroidal type or a spiral type of action, whose mental form had not existed before, and which had a transfinite power over *simply-connected circular action*.

Since 60 is a number divisible by 2, 3, 4, 5, 6, and 10, 12, 15, 20, 30, it became the norm for establishing the 360 degrees rotational action of the circle and for creating the 12 inch measurement of the foot. No other number had such a divisible power, so it also became the norm for calculating the minute and the hour of clock-time; that is, any physical phenomenon which was related to a *principle of circular action*. As LaRouche demonstrated, these discoveries of *simply and doubly-connected circular actions* are the fundamental discoveries of principle of spherics.

THE NEWS FROM THE DEEP PAST: THE RIG VEDA ASTRONOMICAL ORDERING OF THE WEEK DAYS

“Asia is still filled with ‘news’ of that people: the conformities between the known peoples establish this ‘news’; the institutions of knowledge, very old and situated at the very beginning of oriental nations, established this ‘news’ of a people that created these institutions. Great monuments are not the works of a people who is beginning to rise, but of a people which has come to an end point. A palace cannot be built by children.”

Jean Sylvain Bailly¹⁰

According to astronomer and first President of the French National Assembly, Jean Sylvain Bailly (1736-1793),¹¹ the original discoveries of ancient

¹⁰ Jean Sylvain Bailly, *Lettres sur L'Atlantide de Platon et sur l'Ancienne Histoire de l'Asie*, Londres et Paris, Frères Debure, 1779, p. Aiiij, and p6.

¹¹ Most of this section is reprinted from my previous report: [BAILLY'S ANCIENT ASTRONOMY](#).

astronomy were derived from a single and original people whose contribution represents *a unique and common heritage of mankind*.

This ancient People of the Seas is known today as the ancestor people of the Rig Veda (Praising Knowledge), which noted in a multitude of ancient hymn references, that number seven (7) was the most sacred number for the people of India. The Hindus held holy and sacred anything than numbered seven: the seven divisions of the year, the seven planets, the seven days of the week, the seven rivers of Punjab, the seven cities, the Seven Sister seal of the Indus, etc.

The most outstanding Rig Veda use of number 7, however, relates to the human mind and to truth: *“The ultimate truth is brought forth through the medium of seven-fold speech. These seven folds or divisions of speech are seven sisters of the ultimate truth. Speech protects us through its seven physical and three temporal divisions. And three chief aspects of speech-behaviour are mental and intellectual faculties, coupled with the [sic] acquired knowledge.”*¹²

The proof of the Rig Veda assertion lies in a curious discovery which, as we shall see, reflects the universal power of human cognition, and which must be carried forward, as if through the simultaneity of temporal eternity, for all future generations.

Bailly established conclusively the ancestry of the Atlantis people as the people of the sea that Plato referenced in his *Timaeus*, and he discovered a very unique and curious astronomical cycle, which had been in use in all of the major civilizations that followed, but that no one paid much attention to because it never physically appeared in the heavens for anyone to see.

This is the discovery of the ordering of the planets with respect to the days of the week. What is special about this arrangement is that its very existence serves to prove the correctness of Bailly's method of epistemological discovery. It is this

¹² [NUMBER SEVEN IN RIG VEDA, GREECE, AUSTRALIA, CHINA AND MIDDLE EAST \(Post No.6928\)](#)

ordering itself which provides the clue to the uniqueness of the required proof of the existence of this ancient forgotten people, and in a most convincing way.

The very existence of this ordering shows that it could not have been discovered in different places, at different times, and by different peoples simply because it is so precise in its apparent arbitrariness. Why would three ancient civilizations such as Egypt, India, and China, for example, adopt the same apparent absurdity as the basis for their common daily calendar and at approximately at the same time?

Let us reconstruct this fine little discovery which Bailly implicitly attributed to the last great astronomer of the Atlantis people, Atlas, whose heritage and knowledge must again represent one of the most ancient epistemological puzzles to become the *common heritage of mankind*.

Let us examine how the days of the week were identified with a unique ordering of the seven planets. This is how Bailly described this curious and unique historical singularity:

*“It is perhaps the most singular proof of the antiquity of Astronomy, and of the existence of this people, more ancient than the others. These planets, which presided over the days of the week, were organized in an order which is still in existence today. First there is the Sun (Sunday-Dimanche), the Moon (Monday-Lundi), Mars (Tuesday-Mardi), Mercury (Wednesday-Mercredi), Jupiter (Thursday-Jeudi), Venus (Friday-Vendredi), and Saturn (Saturday-Samedi). The same is to be found with the ancient Egyptians, the ancient Hindus, and with the ancient Chinese. This order is not based on distance, size, or luminosity of the planets. This is an order which appears to be arbitrary, or else it is based on reasons that we know nothing of.”*¹³

¹³ Jean Sylvain Bailly, *Histoire de l'Astronomie Ancienne*, Edition Debure, Paris, 1775, p. 63. EIR India correspondent, Ramtanu Maitra, confirmed for me that, indeed, the days of the week for the Hindus do correspond to the seven planets of ancient Astronomy since time immemorial. They are established according to the same ordering principle as Atlas would have ordered them.

Although Bailly stated that he did not know what the ordering was, a further investigation into the mental domain of the *higher hypothesis* will reveal that there does exist an ordering principle to the planets relative to the days of the week, but which comes from a higher manifold.

The first striking thing about this correlation resides in the fact that the same ordering of the planets, as applied to the days of the week, is invariable in three of the most ancient Asiatic civilizations. Bailly points out that the only difference between them was that the ancient Egyptians started the week on Saturday, the ancient Hindus started on Friday, and the Chinese started the week on Sunday. For Bailly, this is remarkable evidence pointing to the existence of a more ancient people, a common ancestor, who had made extensive discoveries in Astronomy before 4,000 BC. Bailly added:

“One can say that it is impossible that chance so ordained that, first, these three nations would have separately come up with the same idea of giving to the week days the names of the planets, and secondly, that they would chose this precise arrangement, unique among so many others. Chance does not make such coincidences. A few scientists would like to find, in this, a proof that there existed a communication between the Chinese and the Egyptians: as for us, we are persuaded that no such communication

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- 1- Sunday is Ravibar, the day of the Sun.
 - 2- Monday is Sombar, the day of the Moon.
 - 3- Tuesday is Mangalbar, the day of Mars.
 - 4- Wednesday is Budhbar, the day of Mercury.
 - 5- Thursday is Brihaspatibar, the day of Jupiter.
 - 6- Friday is Shukrabar, the day of Venus.
 - 7- Saturday is Shanibar, the day of Saturn.

American revolutionary, Tom Paine, who had the opportunity to compare notes with Bailly when he was in France, showed that the Saxon and Danish languages had originally named the days of the week somewhat differently. He reported the following:

- “1.Sun-day from 'Sonne' the sun, and dag, day, Saxon. 'Sondag,' Danish. The day dedicated to the sun.
- 2.Monday, that is, moonday, from 'Mona,' the moon Saxon. Moano, Danish. Day dedicated to the moon.
- 3.Tuesday, that is Tuisco's-day. The day dedicated to the Idol 'Tuisco.'
- 4.Wednes-day, that is Woden's-day. The day dedicated to Woden, the Mars of the Germans.
- 5.Thursday, that is Thor's-day, dedicated to the Idol 'Thor.'
- 6.Friday, that is Friga's-day. The day dedicated to 'Friga,' the Venus of the Saxons.
- 7.Saturday from 'Seaten' (Saturn) an Idol of the Saxons; one of the emblems representing time, which continually terminates and renews itself; the last day of the period of seven days.”

existed, and we see, in this, a demonstration of the existence of that ancient destroyed people, who has passed on its knowledge to their successors by means of some institutions. These institutions are found in populations which were living at great distances from one another on this globe, and this forces us to conclude that they had the same origin."¹⁴

The fact that the written record of Astronomy emerged in China, in Egypt, and in India, around 3,000 BC, shows that all three civilizations were informed of this "*precise arrangement*" of the planets at approximately the same time. Also, the fact that the proper names of the planets all related to the heroes of the Atlantis, indicates that this "*precise arrangement*" must have been discovered and decided upon at a much earlier date and had come from a People of the Seas, as LaRouche hypothesized.

No written records attest to such a communication among them, nor is there any account of how this "*precise arrangement*" was at all conceived by any of these people; only that the knowledge of such a correspondence between the planets and the days of the week existed at approximately that time, and was made use of by these people, and surprisingly, without indication of any explanation of the principle that underlied their ordering. The question is: why would three great civilizations commit the apparent incongruence of choosing the same incomprehensible "*precise arrangement*", if there were no sufficient reason for making such a choice? What is the reason behind choosing what appears to make no sense at all? What are we missing here?

For a Platonist mind, *what is not there* is a very big clue, a very big anomaly that demands investigation. It is precisely this incongruent anomaly which points to the fact that there must exist a higher domain of thinking which provoked Bailly to hypothesize that there was, necessarily, a single ancient people, a common ancestor, a People of the Seas that preceded these three civilizations, and which had made extensive astronomical observations, at the latest 4,000 BC, and maybe as early as the ice age period of 12,000 BC.

¹⁴ Ibidem, p. 63.

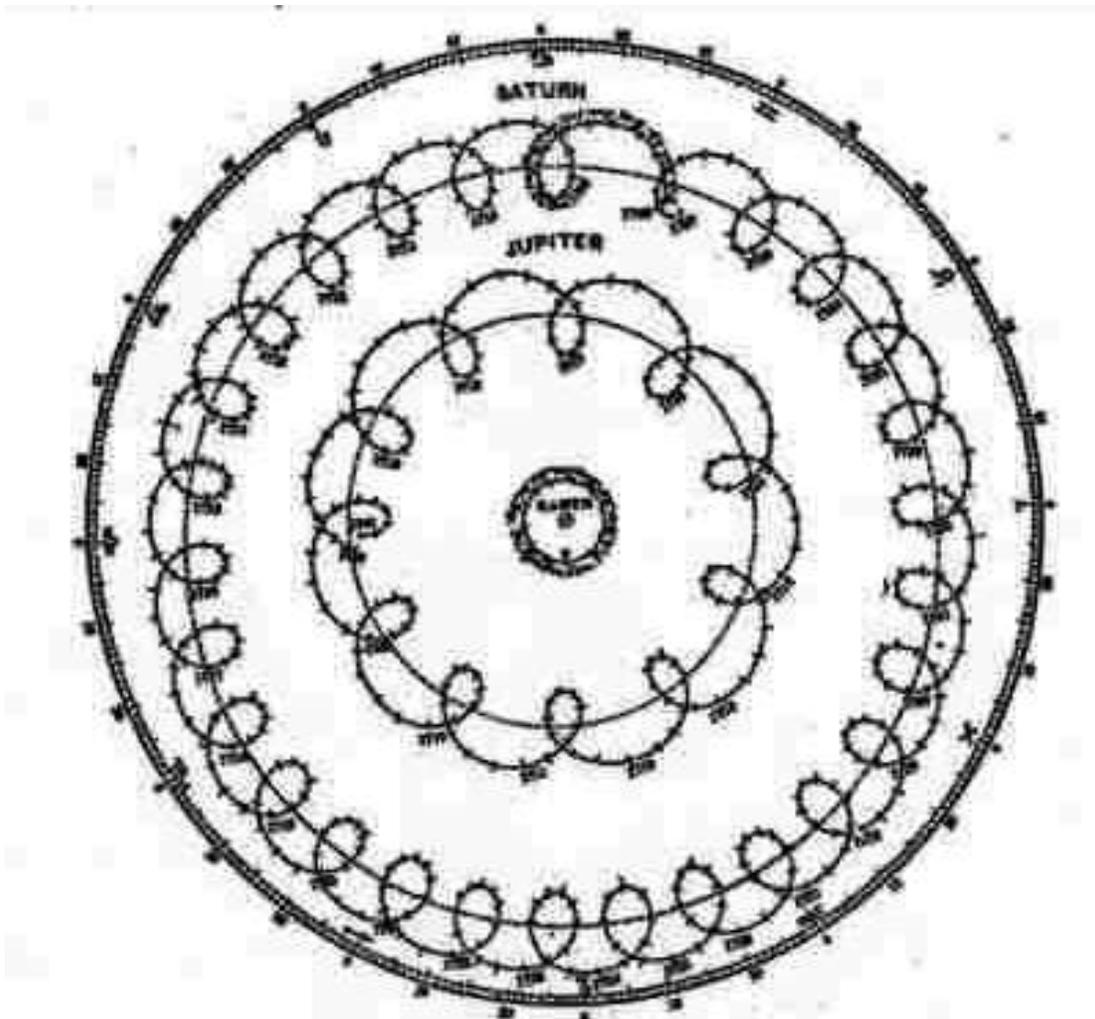
The connections between space and time was part of the underlying ordering of that “*precise arrangement*”; that is, a periodical ordering which ultimately became the source of the first astronomical calendar in human history. As we shall see, such an ordering implies, that their inventor had made the difference between the fixed stars and the seven moving planets; then, he calculated the periods of those seven “wandering” bodies throughout the heavens and had studied them, day in and day out, in accordance with some ordering of their cycles. Bailly provided further intelligence and insight with respect to the use of number 7 in ancient history:

“It is from the observation of the 7 planets that the first divinities were established and through which came mythologies from all nations, especially Asiatic nations relating to the septenary number. From there were derived the seven superior angels taught by the theology of the Chaldeans, the Persians and the Arabs, the seven doors of the Mithras theology, through which the souls had to find safe passage in order to get to heaven, as well as the seven worlds of purification of the Indians. Tradition possibly followed written history, and it is easy to imagine how ignorance distorted ideas by abusing astronomical language. The names of the first illustrious men were given to the planets. Then, the enigma behind the motion of the planets came from Atlas, and that was the beginning of the first apotheosis. Since the region covered by the planets does not extend outside of the zodiac, it was imagined that they had to preside over the constellations which occupy this zone. The Chinese who have 28 constellations enumerated by the seven planets repeated four times. Similarly, the Egyptians had them preside over the 12 signs of their zodiac;...”¹⁵

From these few shadows of ancient times, it can be inferred that the use of number 7 in the ancient astronomy of astronavigators, did not originate with the cycles of the Moon, as some people have suggested. To the contrary, what must be discovered is that this arrangement of the 7 planets has no other origin than the discovery of the cyclical calendar of the Solar System. In other words, this *Ancient cycle* is nothing but the result of a *Solar hypothesis*!

¹⁵ Jean Sylvain Bailly, *Ibidem*, p. 98-99.

Two steps will be required to demonstrate this *higher hypothesis*: one is to determine a reasonable ordering of the planets as such; and two, we must also find a reasonable purpose for establishing a geometrical correspondence with the days of the week. The *hypothesizing of the higher hypothesis*, which is the third mental level of hypothesizing, was not made to measure the timing of the year, but to connect the human mind with the Galactic level of precession: thus, the *hypothesizing of the higher hypothesis* corresponds to a triply-connected ordering of precession, orbitation, and rotation.



Doubly-connected orbits of Mars, Jupiter, and Saturn established by Francois Arago. ¹⁶

¹⁶ Francois Arago, the Ecole Polytechnique astronomer who made the epicycloid construction that I have used here for the outer planets of Jupiter, and Saturn, also wrote a biography of Jean Sylvain Bailly, in which he recognized

First, let's establish the ordering of the planets, according to the number of days required for their complete cycles based on the twenty-four daily cycle of the Earth. Let the minimum duration of observation time of 60 seconds per minute, 60 minutes per hour, and 24 hours per day be the measure of the minimum amount of circular action of clock-space-time in the universe. I will show in a following report how the ancient Chinese Fu Xi discovered that the ordering of 365 days in the year is related to the musical system of C-256.

How can we know this with certainty and how can this measure be integrated in the universe as a whole with a minimum/maximum amount of space-time? Simply order the planets according to their cycles as follows:

- | | | | |
|--------------|----------|------------|--------------------------|
| 1. Monday | Moon: | 28 days | |
| 2. Wednesday | Mercury: | 88 days | |
| 3. Friday | Venus: | 225 days | |
| 4. Sunday | Sun: | 365 days | |
| 5. Tuesday | Mars: | 687 days | (1 year, and 322 days) |
| 6. Thursday | Jupiter: | 4385 days | (12 years, and 5 days) |
| 7. Saturday | Saturn: | 10752 days | (29 years, and 167 days) |

At first glance, the above ordering is coherent, but without any apparent relationship to our week days. However, note that if you insert the last three days between the first four days you will have stumbled on the right ordering.

What is not apparent, here, is the underlying *doubly-connected circular action*. If you count an interval of four units after each day as represented above, the ordering of the non-linear time cycle becomes perfectly ordered with the days of the week as we know them today.¹⁷

that at an early age, Bailly had made the relevant opposition observations under discussion. Arago wrote: "The earliest observations made by Bailly, from one of the windows in the upper story of the Louvre gallery that looks out on the Pont des Arts, are dated at the beginning of the 1760's. The pupil of Lacaille was not yet twenty-four years old. Those observations relate to an opposition of the planet Mars. In the same year, he determined the oppositions of Jupiter and of Saturn, and compared the results of his own determinations with the tables." Francois Arago, *Biography of Distinguished Scientific Men*, Ticknor and Fields, Boston, 1859. P.102.

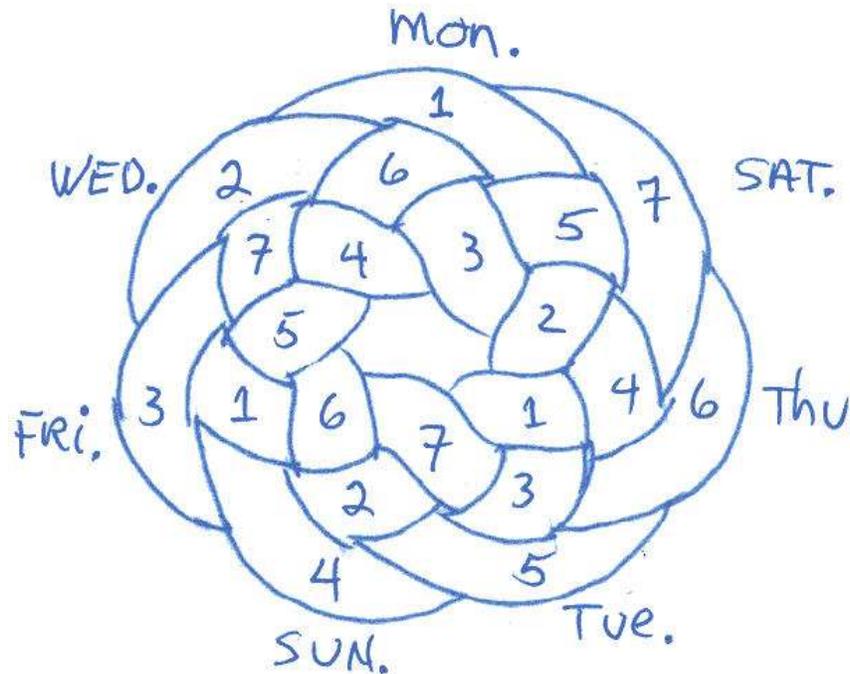
¹⁷ As Rabelais stated in his Fifth Book: "For it is time that has discovered, or in due course, will discover, all things which lie hidden; and that is the reason why the ancients called Saturn or Time the Father of Truth, or Truth the daughter of time." Francois Rabelais, *Gargantua and Pantagruel*, Penguin Books, New York, 1955, p.

What is the significance of this interval of 4 between each of the planetary cycles? Are these time laps intervals non-linear? Do these intervals of action represent some sort of astronomical measure? What does 4 have to do with 7? Why choose 4 and not 3? Why is it that 4 is the only interval which can solve this riddle? What sort of mental process was the inventor of the days of the week inviting us to discover? Let's forget our weekly arrangement for a minute, and let's investigate the mind of this ancient astronavigator, the famous brother of Prometheus, Atlas.

Ask yourself: why would Atlas have chosen that ordering to determine the days of the week, in the first place? Could it be because this is the only possible ordering of the planets that gives the correct progression of rotational space-time within the solar system and the galaxy? Yes and no. Yes, the days of the week are a reflection of the most ancient calendar of our universe, but they are also a measure of how the creative human mind works. Indeed, this anomaly calls for mental investigation; but it will appeal only to the curious. How can this anomaly be the reflection of the human creative process?

You can actually illustrate this complex mental motion by following the wave configuration of the torus arrangement below. Each Poloidal wave of four units of action generates the days of the week and partitions the 28 constellations of the heavens 4 times. The point is that this anomaly requires that you discover how the ordering comes from a higher dimensionality. No matter how many combinations you can compose with those seven planets, there is only one ordering that makes sense, and that is the one which is in the Poloidal/Toroidal (P/T) ratio of 4/7. Here is how this process can be demonstrated with what I like to call the *self-torque bagel principle*.

710. Why is Rabelais relating Saturn to Kronos? Because for Saturn, the total number of Earth's astronomical cycles is precisely $28 \times 384 = 10752$ days.



The doubly-connected ordering of the 7 planets with the days of the week. The ordering is in the Poloidal/Toroidal (P/T) ratio of 4/7.

Bailly already told us, implicitly, why this is the only correct “*precise arrangement*,” when he identified that the ancient Chinese zodiac was made up of 28 constellations; that is, made up of the division of the entire heavenly sphere covered by 7 planets repeated 4 times. In *The Arctic Home in the Vedas*, Tilak also noted that the Indian zodiac had 28 divisions called *Naksatras*. The purpose of this calendar function was not to measure linear-deductive space and time; the purpose was to understand the epistemological principle of the triply-connected hypothesis that LaRouche had identified as *hypothesizing the higher hypothesis*.

In that sense, the torus ordering is a simple *memory function* whose purpose is twofold: one, it serves as a reminder that the most notable members of the Atlantis family contributed to this astronomical discovery for the benefit of the *common heritage of mankind*; and two, it functions as an unforgettable shadow of sufficient reason that can recall, at any moment, a passionate love for *discoveries of principle*, to be communicated to future generations. In other words, Atlas used

the most simple, natural, and least action way, to impact the cognitive powers of mankind for all times to come. This idea of the future was also poetically expressed by Ibn Sina in this short poem:

***“Up from Earth's Centre through the Seventh Gate,
I rose, and on the Throne of Saturn sate,
And many Knots unraveled by the Road
But not the Master-Knot of Human Fate.”*** Ibn Sina¹⁸

Once this unique ordering of the week days is measured against the divine reason that lies behind the works of the heavens, the apparent absurdity of the shadows on the wall of Plato's cave become dissipated, and human reason takes hold of certainty.

Therefore, the measure of *what is not there* is calculated as a coincidence between the maximum and the minimum; that is, when the heavens are partitioned into the incommensurable proportion between the yearly cycle of the zodiac and the days of our lives. Thus, in the geometrical Spherics of the People of the Seas, the weekly and the yearly calendar were congruent with the visible wanderings of the 7 bodies of our solar system and acted as the limits of the constellations in the heavens as the days of the week act as limitations creative work on Earth. The Minimum was made to coincide with the Maximum.

CONCLUSION

Thus, what this *discovery of principle* demonstrates is that the epistemological method developed by Bailly and the “*precise arrangement*” of this space-time anomaly were suitable for identifying the function of Plato's *higher hypothesis* and LaRouche's *hypothesizing of the higher hypothesis*. This is why such an epistemological modular measure became the expression of an incommensurable proportionality between a higher manifold and a lower manifold, between God the Creator and man created in the Image of God.

Such is the proportionality that the Rig Veda identified as the “seven-fold speech” (Hymn 8-59) whereby man is the expression of the congruence between

¹⁸ Joel C. Rosenberg, [The Twelfth Imam Collection](#), Tyndale House Publishers, Inc. 2014.

the cycles of the heavenly bodies, the orbit of human reason, and the day to day activities of mankind.

So far, this is the only known astronomical example of *higher hypothesis* which is suited for developing cognitive discoveries in ancient astronomy, especially the discovery of the *solar hypothesis* of galactic thinking in the domain of Spherics. Therefore, such a hidden heritage from Sumer Civilization and the Indus Civilization cannot be forgotten, and should be commemorated for all time to come, and throughout all of humanity. Bailly showed how such a measure related to our own human need and yearning for immortality:

“Thus, human beings carried by time and renewed by time, when they see the works of nature perish, as they themselves go, while the Earth is unshakeable and is always alive, they have conceived of locating in its dimensions the invariable type of measures they wanted to make eternal. A human being, which only lives a moment, has the ambition of extending his life through memory, and by making his institutions eternal; he wishes to extend his usefulness after his death: this being is replaced by others, who have the same needs, and the same desires. The module of measured pathways has been engraved upon the foundations of a common home, in order to instruct the hosts of all of the centuries to come.”¹⁹

Thus, *hypothesizing the higher hypothesis in the simultaneity of eternity* is the measuring rod of the human mind; and that is the only calendar capable of measuring non-linear space-time, because that is the only form of measurement which accounts for true scientific progress.

FIN

¹⁹ Bailly, Idem, p. 157.