的。这种是一种,我们们的一种,他们也是一种的人,也是一种,他们们们的一种,他们们们们们的一种,他们们们们们们们的一种,他们们们们们们们们们们们们们们们们们们们们

Absolute Time, by Lyndon LaRouche

A NON-MYSTICAL VIEW OF THE NECESSITY OF EXISTENCE OF THE NOTION OF ABSOLUTE TIME"

16 March 1988

The origin of the notion of necessity for the use, and existence of the notion absolute time, arises from the to generate and assimilate efficiently valid fundamental create? as that quality of the human mind which empowers mankind recognition of the intelligible representation of the verb *to

curvature of the creative processes is identical with that of discoveries in physical science. We have shown, in earlier locations, that the space-time

congruence is the sole basis for the possibility of real human species by which valid fundamental discoveries in physical science the intelligible representation of those mental acts of our axiomatic linearity of all formal deductive reasoning. Thus, only creative-mental processes, as opposed, for example, to the knowledge in fact, unless it expresses directly the product of knowledge of astrophysical, microphysical, and biophysical space-time. This the universe. Thus, nothing called human knowledge

are generated and assimiulated efficiently, represents something

truly appropriate to the connotations of "scientific knowledge." conscious, becomes an object of conscious thought for us. We are such creative-mental processes, that intelligibility, made have defined the requirements of intelligible representation of \cdot consciousness of the creative mental processes themselves. Once we is associated with the manifest possibility of our willful for his principle of hypothesis. The highest form of such activity exercizes of a form usefully termed "very strong hypothesis, the same sense, approximately, that Leonardo da Vinci argued to perform conscious operations, such as strong hypothesis, the processes of creative thought themselves. The proof of this specific congruence permits and compels us

scientific meaning; the term is meaningless if expressed within within this setting that the term "absolute time" has an important questions respecting the lawful composition of our universe. It any lesser In this way, we are obliged to address a set of higher-order frame of reference.

notion of absolute time will be found in connection with such matters as a properly redefined notion of 'matter/antimatter' axiomatically embedded in the fiction of a functions, notions eliminating the obvious problematics is suggested, that the practical importance of defining

process subsuming this object and virtually all other contemporar be selected for the purpose of illustrating this point. The pairwise relations within the whole process imply functions local events within it, form a coherent whole. Yet, some selected relations based minimally on velocities exceeding the speed of such a pair. Imagine any among those large astrophysical objects which might Assign the labels 'A' and 'B,' respectively, to members

> Respecting the class of examples we have matured physicist is since habituated, usually, to deal with such astrophysicist noted such anomalies during the time he was a of Finite Magnitude." To this observation, we might append the on the condition it is understood, that this come is generated university undergraduate, or even earlier in his education. track, thus, of some approximation of the notion of a quality quip, 'In time, the speed of light can be exceeded.' apparent anomalies adduced from within such analogs of a 🚟 anomalies in the manner he absolute time, subsuming, but not measured by, any simply acording to Riemann's of a relativistic speed of light. Riemannian 'Mach cone' as are implied by effects beyond the limit relativistic notion of a value of the speed of light. analogous to the case of generalized events within a 'Mach cone At first glance, the anomalous phenomena considered are 1859 *On The Propagation of Plane Air Waves might describe mathematically the light.

question conforms as a whole to Kepler's second and third laws, such observations which beg immediately the notion of 'absolute object as an entirety. For example, if the astrophysical object of the physical-functional history of the elaboration of some functional sense, we seek to express such coherence in terms beyond the limits of action in terms of the speed of govern phenomena even though the scale of events as a whole facie. In other words, demonstrable physical laws are shown any kindred sort of function, the evidence of coherence is prima If such an astrophysical object is assumed to be coherent in light. It is

were coupled in terms of the speed of light. We can thus describ can find a point in past time at which events leading between A and B directly in terms of a limiting speed of light, sufficiently far in time, we can construct a mathematical for each predecessor of A and B, respectively, a time-series function including A or B. We thus assume, that if we go back subsumes the co-determination of ostensibly anomalous events A expression, from that past time to the present date, which Simply, if it is impossible to express the relationship a coherent way. into A and

matter here, we must simplify the case in a certain sense: we eliminata the popular, false, formal-deductive notions coherent a notion of universal entropy. Before we proceed further in that approach to the subject

enumerable density of mathematical discontinuities per arbitraril case, physical least action is represented as multiply-connected this subject, to the view of the universe consistent with small interval of action. function of a variable rate of increase of the implicitly self-similar-spiral (conic) universe characterized by such universal 'negentropy.' Gauss-Riemann notion of multiply-connected least action, a Kepler-Gauss-Riemann notion of universe generated by We restrict the interpretation of all further statements action; 'negentropy' is measured as

postulated, different than the A defined by a simple historical terms of a constant speed of light, a coherent 'historical' construction of the coherence of correlation of event A with B. Let the existence of an event A' to occurrence of both A and B, at which we might construct Let 'P(0)' signify the latest point in relative time, prior mymnt# A and B.

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representation, such that no coherent representation of the A'+B as an event, substituted for A in A's place in such a coherent terms of the historical function associated with the A+B relationship between A' and B exists, relative to point P(O), in

entire history of the process over the interval beginning point A'+B is defined. process, also relative to point P(0), t event A, in other words, if we act upon the locality of scheduled to Nonetheless, such that we produce A' instead of A, we change the there does exist a different 'historical' by which the coherence of の事がないというないとなっています。 ままる いちいかん

different historical process exists for the interval P(0)-P(A), and thus a different historical process for the interval P(0)-P(1)history, we have at P(1) C'+D', instead of C+D; we may also have than for the case of occurrence of A+B at P(A). P(1) of the historical process P(0)-P(A); if A'+B at P(A), then a also exists at $P\langle 1
angle$, an event D_s which corresponds to event B at event C corresponds at this point to event A at point P(A); there There exists some future point, P(1), later than P(A), such that Let the time of occurrence of event A be designated by in the same sense we might have A' instead of A at P $\langle A \rangle$. to date. If A+B prevails at P $\langle A \rangle$, then C+D exist as an extension to For this changed P(A).

history can be changed in this manner and degree. crucial experiments of such import, is the demonstration that that a potential change in future history. The nub of the matter, and occurs as a retrospective change in preceding history, and also as In general, the occurrence of a change in history, typified substitution of A' for A, or C" for C or C', in these cases,

What Happened In History?

connection with what was justd stated flow from the carrying conceptual difficulties vanish. forward of the fallacies of naive sense-certainty into the domain The conceptual difficulties which might appear to arise If we remove those fallacies, the obvious among the 3

axiomatically excluded, together with all notions of a principle matter exists as discrete bodies of linear and scalar magnitude of physical least action. Replay-Gauss-Riemann notion of physical space-time is thus roaming in a linear extension of empty space and empty from schoolbook deductive euclidean geometry the assumption that those of Descartes, Newton, and Maxwell. These fictions borrow of physical science The fallacies of sense-certainty are projected in the domain in the guise of discrete manifolds such as time. The

are superimposed upon the emprical evidence by the mere employment superimposes upon the universe the idea of universal entropy, matter in published locations. Second, the mathematics itself ex machina) illustrates the point, and I have have elaborated the not exist within the universe so represented, as Descartes' (deus of such a deductive mathematics. First, the verb "to create" Newton remarked on the fallacy of a universe the sense of a mechanical timepiece. As both Descartes and Newton each conceded, in their Butaradde ő 200F

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> > Page 4

this curvature. The immediately, that efficient coherence on scales not possible in terms of speed of light is supplied by the curvature of physical space—time. Hence, the notion of (absolute time) is in correspondence with such notions of universal physical characteristic curvature, such that all of the elementary laws the universe might be adduced directly from proper insight into subsumed by the Golden Section, apporoximated this by constructions based upon harmonic orderings deductive mathematics vanish axiomatically. Implicitly, as Kepler least action, these fallacies of the discrete manifold and possible by the Gauss-Riemann principle of multiply-connected If we adopt the revised view of Kapler's universe, as made physical space-time has a .

the space-time curvature of the solar system. Instead of action being determined by pairwise interactions in discrete-manifold space, action follows a pathway determined by least action in a definite physical space-time. This is to be seen universal (electromagnetic) gravitation from his determination of in the same vein Kepler derived his laws and his notion of SPECIFICATION DUTY DE LA CONTRACTOR DE L

but as a reflection of the curvature of a Kepler-Gauss-Riemann terms of pairwise action at a distance through linear space-time Hence, the speed of light is situated ontologically not in

physical space-time.

expressions occur as locus-descriptions of geometric constructions of multiply-connected self-similar-spiral (conic) action as physical space-time in the geometrically generated complex domain synthetic geometry. Specifically, we require the generation of deductive mathematics, and reliance solely upon methods of physical least action. In respect to this, useful algebraic These relations require the abandonment of axiomatic forms

Pacioli, Leonardo, and Kepler, from the vantage-point provided discrete manifold, had superimposed (entropy) on the universe, characteristically (negentropic), not (entropic), It had been understanding the implications of the Golden Section harmonics Kepler's synthetic physical space-time by a deductive form of the work of Gauss and Riemann, prove only that the universe is not necessarily entropic. By whether the universe were entropic or not. This would tend to conclusively that the universe is not (entropic), but is assuredly recognized already, that Descartes' and Newton's replacement of (negentropic). In these terms of reference, we show that the universe is the empirical evidence â

matters of ontology and physical causation.

Le measure (negentropy) in these Riemann-Cantor terms, as obliged to discard deductive mathematics in dealing with all construct wrongly superimposes the inference of universal entropy, we the real universe's regentropy, whereas deductive mathematics important phenomena, and must never imagine that a deductive Since only the appropriate synthetic geometry corresponds to produces anything but fallacious inferences respecting

discrete manifold. The assumption of discreteness itself colors \mathbb{R}^{d-1} This view liberates us from the false, sense-certainty \mathbb{R}^d per arbitrarily small interval of action described by an rate of increase of the density of mathematical discontinuities every observed or imagined event with the quality of a completed assumption carried over naively into appropriate function. the construction of

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conceptual difficulties suggested by the idea of retrospectively causes of further action. Reflection on this point dispels the action. There are no completed actions in the universe, but only altering past history.

P(0), is thus a cause. If we alter the locality of event A_1 to yield event A_1 , we have changed retrospectively the function associated with P(0). the emergence of events A+B proceded. This function, at point associated with P(0). we described point P(0) as representing a state from which

form of discovery of the isoperimetric theorem and correlated notion of physical least action, has had a momentous effect on the science since 1440. Up to the point of that reexamination, Cusa's original work is changed by means of direct reference to the original writings. these papers, such that the historical consequence of that hundred fifty years. Now, we discover something new from review of development of science, and thus of history over the recent five reassembled, and examined afresh in light of the history of The papers of the sixteenth-century Nicolaus of Cusa are

describe the physical function representing what has just been sorely mistaken. It is sufficient even to begin to attempt to If this appears to be merely an analogy, such opinion

stated by means of this illustration. for example, advances in scientific knowledge be

potential population-density, in the same sense and order as the subsumed by such increased negentropy in scientific progress correlates with potential increases of the per-capita value of representation, as a function of negentropy. Also, the technology of that sort can be ordered as an enumerable series through that fundamental discoveries in physical science. Moreover, discoveries responsible for the generation and efficient assimilation of valid for intelligible representation of those creative mental processes course!" Less exuberantly, we may say that there exists the means fundamentals and near-fundamentals? One is tempted to say, "Of represented as an enumerable, ordered series of discoveries of negentropic ordering of discoveries.

per-capita values of potential population-density. the structure of practice of society, the latter in terms of between (negentropic) levels of available scientific knowledge and so ordered. The obvious variability is that of rate of increase Hence, we can order the account of history as a relationship Furthermore, more than one series for potential history can

action: higher or lower rates of negentropy. Hence, the Cusa case cited implies a shift from a relatively

the density of discontinuities per arbitrarily small interval

only the only the consequences of past history; we are changing the function which is required to account for past history's unfolding apparent functionally-ordered drift of events, we are changing not More generally, by changing the present, contrary to the to a relatively higher-order series.

history, both, by a willful action of a type which had no was not grasped by intorvening generations. Thus, Cusa is enabled plausibly actual case, we are directly accessing conceptions to act directly upon the present, be accessing is a conception which Cusa put to paper, but which generated over a half-millenium ago. Moreover, what we might well Back to the Cusa illustration. In this hypothetical, but to change future history, and the outcome of more than five hundred years gried or

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years. This begs the notion of (absolute time) in a way that has efficient consequences during a span of more than five hundred

years of history. . function to represent efficiently the intervening five hundred-odd Look again at the implied problem of defining a physical

humanity among species, is not only the characteristic of human existence, but is a physical cause in the universe generally. of course. Nonetheless, creative-mental activity, unique to negentropically through creative-mental activities of the form that mankind is able to change willfully its mode of behavior processes are the physical substrate of creative-mental activity, axiomatically negentropic as biophysical processes; those physica. physical science. Of course, all living processes are generation and assimilation of valid fundamental discovberies The fundamental distinction between mankind and the beasts is The reordering of human physical activity according to the

the deductive notion of a discrete manifold. intrinsically absurd in every possible way. It is premised upon the quantitu of negentropy applied. Such "information theory" distribution of activity, and presumes that human negentropic term (negentropy), the term refers only to a statistical form the solar system in a similar way. increasing the implied entropy of the universe in proportion action is imposed upon an entropic universe to the effect of (negentropy) in "information theory." Although this dogma uses the This proposition has no kinship to the usage of the term

ordering of the planet's biosphere, and is about to alter much of influence of technological progress, has changed the physical

general function describing the history of the universe as a whole is a part of the universe. It increases the negentropy of the universe increases the negentropy of the universe, not only as mar In reality, the human application of negentropy to the Hence, the function of human behavior is characteristically

human history, viewed in these indicated terms of reference, is terms of reference are inherently fallacious. Thus, the problem of non-linear in that sense, to such included effect that all universe as we have introduced that here. more or less identical with the notion of history of the physical attempts to render statements about mankind generally in any other

God & Causality

God's laws are permanent ones, then it is obliged to contend that God made man ominiscient, but was made impotent by the original a God who is a living being engaged in a continuous process creation. However, it is impossible for deductive reasoning portray such a God. act of creating such permanent laws. In such logic, the notion "to create" does not exist. If deductive reasoning professes that Simply, in the axiomatics of deductive reasoning, the verb The idea of (absolute time) is inseparable from the notion 9 q

past "to live," exist as referents only for the empty space between two successive formal-logical lattices, as is the case with Immanuel (absolute time) could not arise. . In deductive logic, the related conceptions, 'to create' and

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no system of representation based on the model of sense-certainty; Nicolaus of Cusa, Luca Pacioli, Kepler, and Gottfried Leibniz. In Gauss-Riemann synthetic geometry, as this was anticipated by to those non-linear functions of a complex domain defined by Kant's arguments in his (Critique of Judgment). (To create) and such as deductive discrete manifolds, do the terms (to create) and (to live) are, with reference to mathematics, conceptions unique (to live) have actual, intelligible referents in the appropriate forms of actions as actions per se.

camel in deductive modes of argument, the camel to which he refers forms of actions as actions per does not cease to exist merely becayse deductive reasoning can not represent anything essential respecting a living Creator. which excludes the verbs 'to create' and "to live,' can not refer to the actuality of God, although his mode of argument, theologian who argues in the language of deductive reasoning may represent the verb 'to live.' So, in matters of theology, a as of actions as actions per se. The observation of that

any deductive form of statements by theologians. in what we have to state here, do not hold us to account

cucles as the equinoctial one. It is the simplest possible solar-astronomical calendar is generated, including such long SUn with the nightime constellations, a highly accurate attributable to the Vedic solar-astronomical calendars of the calendar to construct. people of Central Asia, earlier than 4,000 B.C. By simple line of The oldest known conception of a God the Creator is comparative observations of the daytime positions of the

since the work of Kepler to this effect, we know that creation is physical laws bearing upon matters of short-term sense-certainty's been elaborated further since. ordered succession of changes in the apparently fixed form of which is ordered by a more durable, higher principle governing the Newton's mechanics, but changing fixed laws, changing in a way the laws of the universe are not fixed laws, in the sense of lawfulness above and ruling the extant of known creation. Today, observations. fixed, but is (negentropically) ordered, to such effect that The solar astronomical calendar so devised affirmss universal

universe. This much is already certain, by employing the relevant curvature of physical space-time is everywhere, simultaneously the changing of the ostensibly fixed laws of action within the existence of (absolute time). The (clock) of (absolute time) is efficient, to the effect of making the universe as a whole coherent throughout. This higher coherence is the locus of the (non-deductive) mathematics to the known crucial evidence. This higher, (negentropic) lawfulness is signified by the These higher laws define the universe as a unity. The

of creation. This God's clock keeps (absolute time). this (Logos), is the living God engaged in continuing the process (Logos). The Being which corresponds to the efficient action of By (absolute time), we must signify that which is

he curvature of physical space-time. those elementary laws of physics directly adducible simply fromt such, are the simultaneous effects in the universe, as typified by light determined by the curvature of physical space-time. The simultaneous, relative to any relativistic notion of a speed of effects which are attributable specifically to that curvature as

Can this curvature itself be altered in some lawful way? Let precise as to what this question might imply.

the work of Gauss and Riemann, we discovered that Kepler's space-time. For Kepler, this curvature was the harmonics elaborated by construction from the germ of the Golden Section, Absolute Time, by Lyndon LaRouche Pacioli had defined the significance of the Golden Section at the discrete manifold, but simply by the eurvature of physical universe is governed not by pairwise action among bodies of beginning of the sixteenth century. Later, from the standpoint of Repler already defined, and essentially proved, that the

curvature was but a projected shadow of the actual curvature of physical space-time.

Ontological reality exists not in the images of perception negentropic development. We amplify this important set of points. curvature of physical space-time must be altered relativistically complex domain of Gauss-Riemann. This physics demands that the projections of constructed alterable absolutely, as well as relativistically, it implies also, that the general curvature of the universe is During a seminar, now several years ago, this writer by the brain, but rather those images are but an ontological reality situated elementarily in th through

this effort is complemented by the work of Winston Bostick, elementary particles. Robert Moon has elaborated correlated showing the inherent negentropy of organization of all so-called is also the curvature, not only for biophysical space-time, but Keplerian physical space-time curvature of the astrophysical scal features of the ordering of the periodic table. proof of the LaRouche thesis at a later seminar. Wells' work to writer's oft-stated point. Wells asked to present his provisional been strongly provoked by what was for him a first hearing of the Wells, a participant in that seminar, later reported that he had occasion to identify his long-standing strong hypothesis, that th for sub-atomic microphysical space-time. Plasma physicist Dan

as distinct from non-creative thinking, is Keplerian in the same sense. This thesis was first developed in germ, in 1952, and has that the curvature of the space-time of creative-mental writer's thesis is derived from his own demonstration processes

ordering of (mathematical) processes generally. The writer's own counter-thesis, which biophysical processes, and also to wrong results in physical degree that this must lead to viciously false results respecting features of the Wiener-Shannon dogma were wildly fallacious in t describe some of the effects of (negentropy), the ontological Ludwig Boltzmann for the Wiener-Shannon "information theory" mig commitment to show that while statistical methods borrowed from preceding work by Bernhard Riemann, with special emphasis on was based on viewing Georg Cantor's theorem on the transfinite appeared in the role of a crucial discovery Rismann's posthumously published notes on the Herbart Goettingen (On The Hypotheses Which Underlie Geometry). lectures and Riemann's coordinate, This thesis was developed in the course of the writer' discontinuities in the context famous inaugurual dissertation in physical economy,

relativity as summed up by Hermann Minkowski, leaves the matter resembles the results of an isoperimetric recasting of Archimede synthetic-geometrical physical space-time, the change so effecte ontologically within the frame of reference of the discrete quadrature of frame of reference, and situated in a truly Riemannian, If special relativity is taken out of the quasi-Riemannian the circle. What might be termed classical special

anifold, not actually a non-euclidean manifold, but rather a co-euclidean manifold deductively analyzed. In contrast, semann's physical space-time is a truly non-euclidean geometry.

egins with Nicolaus of Cusa's 1440 (De Docta Ignorantia), eductive axioms and postulates. Modern non-euclidean geometry east action. soperimetric theorem for topology, and the principle of physical is "Maximum Mirimum" principle, includes what is known as the ocation. The outgrowth of Cusa's discovery, most usefully named ~chimedes' analysis of the quadrature of the circle in that nclusive of Cusa's reporting of the results of his reworking ame of reference only in terms of alterations in the set of scrate manifold differing from Descartes' and Newton's euclidean on-euclidean geometry, " is an axiomatic-deductive mapping of the soperimetric principle. ee of the axiomatic-deductive method. What is sometimes termed a By "non-euclidean geometry," we ought to signify a geometry The latter is but the physics correlative of 4

Cusa's reworking of scientific method was continued, most gnificantly, by the circle of Milar collaborators including Luca cioli and Leonardo da Vinci. Kepler's construction of physical sace-time was based directly on these discoveries by Cusa, scioli, and Leonardo--contrary to the wild falsehoods of science storian Cohen. The result, for mathematics as such, is the use the synthetic methods of differential geometry, as by Pascal id Leibniz in the development of the differential calculus from a srely synthetic-geometrical basis. Throughout, physical least thout any ontological assumptions consistent with those of the educative discrete manifold.

The frame of reference inclusive of the work of Cusa, Keplen z al. is a universal geometry completely subsumed by a nereditary principle" of construction, or a synthetic geometry. Il that is self-evident in this geometry, is circular action. onstruction is based upon the starting-point of altiply-connected circular action: circular action, reciprocally, during every interval of such action.

with the work of Gauss, multiply-connected least action is aken to a higher level, substituting the connected nest action is element to a higher level, substituting the connected form of element connected action for simply circular action. Implicitly, he entire complex domain is elaborated by synthetic-geometrical sthods of construction. Every theorem in Kepler's physics is ubsumed, and somewhat corrected by restating the theorems in sense of the Gaussian synthetic-geometrical form of the complex anifold, but also considerations not made intelligible in the epler domain become intelligible. Implicitly, as Riemann argued, my real process in the universe, even those seeming to be most rotrary, can be supplied an intelligible representation in the aussian synthetic complex domain.

The role of the Golden Section in Kepler's geometrical redering of physical space-time, is made clear by Gauss's work-rape Golden Section is the characteristic of projections upon the isual space of the discrete manifold's reference, of elf-similar-spiral action in the synthetic complex domain. The act; that multiply-connected action in the Gaussian complex omain generates increasing density of (mathematical) is continuities (physical singularities), shows how and why isual-space orderings harmonically congruent with the Golden ection must represent negentropic processes.

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Riemann's notes on the Herbart lectures expose the root of his later work. This issue of a negentropic universe, is identified as the kernel of that later work. The famous inaugural dissertation is but a step toward the later elaboration of Riemann Surface functions, and such products of that as his famous (Dn The Propagation of Plane Air Waves of Finite Magnitude). If classical special relativity is taken completely out of the frame of reference of Maxwell's work, and Riemannian electrodynamics are elaborated in the frame of reference of Riemann Surface functions explicitly, instead, such restatement of classical special relativity defines a Kepler-Gauss-Riemann harmonic ordering of physical space-time, calling into doubt the validity of perceived need for a dogma of peneral relativity.

of discontinuities within an arbitrarily small interval also illustrates this, and as Cantor's cited theorem on enumerability definition of a function, as a Riemann Surface function the gaps themselves which become explicitly the subject of the hereditary principle of lattices is premised. These changes define represented only by a succession of such forms of lattices. In Riemann space, and implicitly also Kepler's, it is gaps--mathematical discontinuities (singularities)--separating the theorem-lattices, each defined, relative to its predecessor, by reflects this. logic. In this arrangement, non-linear processes can be theorem-lattice according to an hereditary principle of formal universe. That is, every set of axioms and deductive formalism as a whole can not represent the real proofs, that all deductive systems are linear ones, and that In other published locations, this writer has detailed the postulates generates

The result is, that physical least action replaces pairwise action of the discrete manifold, and that this physical least action is defined in terms of a synthetic complex domain derived from multiply-connected self-similar-spiral action. The further result is, that as in Kepler's domain, in the Gauss-Riemann domain, least action is represented by harmonic orderings of both absolute and relative least-action pathways.

Hence, relative to the deductive physics of the discrete

Hence, relative to the deductive physics of the discrete domain, we specify the apparent laws of this domain to be those constructed directly from nothing but the harmonic curvature of the Gauss-Riemann complex domain. In other words, only those forms of apparent action-at-distance which do not violate the principle of Riemannian curvature, are allowed states in deductive simulations.

To restate the working point: the writer's original discovery was that those creative-mental processes responsible for the generation and efficient assimilation of valid fundamental discoveries in physical science are intrinsically negentropic in the sense of the Gauss-Riemann synthetic construction of the complex domain, and thus have the same physical space-time curvature as the universe as a whole. The negentropy of living processes, as referenced to the work of Pacioli and Kepler on this point, has this same characteristic curvature. Furthermore, ontological actuality is situated in that complex domain so defined, not the shadow-world of sense-certainty, as the latter is awkwardly misrepresented by deductive portraits of a discrete manifold.

Hence, it followed, that for reasons rightly identified by

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what is true at the upper extreme, the astrophysical Moon,

et al confirms this empirically in a crucial, if yet not microphysical sub-atomic scale. The work of Wells, scale, must also be true for the opposite extreme, the adequately elaborated way. Free contract the contract of the c Bostick.

implicitly defined in Riemann's famous inaugural dissertation, the self-bounding of the universe in the astro-kand with the self-bounding of the universe. So, respecting the scale of relativistic actions as in biophysical and creative-mental

micro-physical scales, and The apparent laws of local action are everywhere subordinated to this (relative) instantancity. In that sense, already, space-time---is everywhere (relatively) instantaneously efficient. the speed of light is but a necessary local condition imposed upon of the speed of light, are always occurring throughout the on the astrophysical and microphysical scale. Indeed, of light is but a processor land. instantaneous action, vastly in excess of the limits

universe by such (relative) instantaneity. The question becomes: is God's clock set to instantaneous

time? Does time, as we know the sequential passage of events, exist in some sense for God? The indicated answer is both "Yes"

clock is set always to instantaneous time. all differences in special local curvatures are subsumed, God's self-bounding of the process of creation, and all actions within If the universe maintains a fixed absolute curvature, "No, " in the sense of the instantaneity of the universal by which

ceased to be efficiently creative with some act of creation. notion of time must exist therefore for God. (e.g., linear, product of the demonstrable axiomatic fallacies of deductive there was no "Big Bang"--the latter hypothesis is always we must also say "Yes." God and the Logos have not nomimalistic, symbolic-philosophical) reasoning. A

transformation of the absolute frame of physical reference. the Maximum must ultimately contribute to a negentropic returning to Cusa's notion of the Maximum Minimum principle, as in relatively absolute curvature of the universe as a whole. Yet, negentropic changes are relativistic within the defining frame of the deepest of the necessary implications of the notion of physical least action. feature of the universe as a whole. This argument is premised upon Moreover, this possibility has always existed as an ongoing (De Docta Ignorantia), negentropic action by the Minium upon To the extent we act upon local events within the universe,

relatively absolute curvature of physical space—time as a whole. negentropic principles of least action. This must include the Negentropic development is the fundamental characteristic of The question posed to physicists thus, is "where" is the

manifestation of such ongoing impulse toward general development

upon Sod's (absolute time) is represented to us today in the matter-represented actions the same as for antimatter represented B an antimatter-represented action. perplexities associated with (matter-antimatter) reactions. knowledge which we must surpass to find empirical answers bearing situated such that we might adduce its efficiency empirically? For example, let A represent a matter-represented action, It is already clear, that the If not, the provisional empirical solutions to the issue boundary to present empirical Is the scale of time of 200

lie here. If so,

we must look elsewhere,

perhaps in the anomalous phenomena associated with very powerful arge-scale-effects gravitational lenses.

ordering of lawfulness which corresponds to the efficiency of the Logos as such. of the universe; there is recessarily a higher transfinite work. The laws we adduce from that curvature are not the true law absolute curvature of the universe is not the end of instantaneously infinite sleep. Creation is ongoing. Logos as such. In the meantimm, we know that God is not sleeping an creation's The apparent

necessary feature of universal physical lawfulness. Much more, we question. absolute time, is running. Nothing then will end the restlessness can not yet say, except to note that God's clock, which counts of the most sensitive scientific minds on this account, until empirical evidence is adduced which has obvious bearing upon this So much can we say of (absolute time). It exists as a will

scientist, or a great creative mind such as that of Bach, Mozart, engagement with this pursuit of willful knowledge of the Creator, and to uplift mankind in discovery, is but a guise for the emotion which is at once lyoe of condition of mankind. That Agape which the scientist knows in his incarnate, and lovers of mankind for God's sake. and Beethoven, all greatly impassioned lovers of God and the Logos noblest condition of the mortal individual, whether as a physical Christ. To lessen the imperfection of God, and love of mankind for the sake of the Logos incarnate, moments of most intense, valid creative work of fundamental The hunger for atonement with the Creator, is the highest thought and our wills, relative to the practice, is the

over the physical universe; we shall enjoy delivering new such gifts to mankind, for love of the Creator. It is not such reconciled. God, and the corresponding yearning of the Minimum, in the greatly improve mankind's per-capita power to exist in dominion to God's will, and the notion that this imperfection separates us the imperfection of our knowledge and willful practice, relative creative image of the living God, for atorement with the Maximum practical considerations which drive us most deeply. It is love of from Him. We are assured that lessening such imperfection will fundamental issue here. It is our frustration at the thought of the universal work of that living God with Whom we yearn to It is not the practical power mankind achieves, which is the

might kick against all the pricks, and endure all other abuse that generally, is essential to the best scientific minds. The scientific mind must situate its personal identity, its "social contracts," and to "other-directedness" in opinion view, which is wholly antagonistic to all devilish concections of accountable to a higher agency than any worldly potency? This the grave, except that the mind of that individual holds fidelity to love of mankind usually incurs, even all the course of commitment, the cituating of one's actions in the fundamental self-interest, its devotion to practice, so; in that immortality of God's (absolute time), is necessary. How is it possible, that an individual mortal man or woman, itself

gravitational lenses, and anything else which suggests its termed "watter-antimatter" processes, the most powerful God keeps (absolute time). So, we shall press ahead with what for no other motive, we are consumed by a passion to discover how So, that we might gauge our actions against God's clock,

Absolute Time, by Lyndon LaRouche therefore, why not come to know the meaning of practice. We may be assured, necessary of the notion as a goad to our appropriate form of of (absolute time) is so poorly focussed; let us merely accept the possible relevance. Let us not complain too much that our notion (absolute time) empirically; that in (absolute time) mankind shall Page 13 小 元 日本のなる