

Part XV

NEW PHYSICS

NOOTAXIS AND NOOSPHERE

SEMIOTIC DESCRIPTION OF WORLD SINGULARITY

INTRODUCTION TO THE NOOSPHERE

The Noosphere provides a road for Humankind's survival.

The Noosphere – the only categorical outcome for the Earth's salvation from cosmic cataclysms among the numerous other hypothetical outcomes.

The Noosphere – Humankind's Intelligible imperative.

The Noosphere – the Earth's Spiritual Decree. The Noosphere – the Universe's cognitive Decree.

The Noosphere – a correction of the fundamentally mistaken evolution of humankind: instead of a technological civilization dying in an extreme Universe, Noosphere offers man the chance of evolution into a Cosmic psyche that survives in the disintegrating world through a spiritualization of energy.

Noosphere throws light on facts in a new way.

Noosphere provides the Future without Knowledge about it.

Noosphere does not place cognition between Humankind and its future the way sciences do.

Many facts will prove false in Noosphere's illumination.

In Noosphere's explosions, when depersonalization illuminates the darkness of the Ego,

many events will turn to be pseudo-events.

Noosphere – the last possible critical cognition, which will replace Cognition through Ecstasy.

Noosphere – replacing the Sad Analysis with Joyful Synthesis.

Noosphere – foretells which sciences will continue to exist in the future and which will disappear.

Noosphere – the last objective hideout of the subjectively disappeared god.

Noosphere – I call it Name of the Nameless.

Noosphere – I appeal to it as if to my Own Memory.

Noosphere – I call it like the Unthinkable Thinking.

Noosphere – I run towards it as if towards my Fear.

Noosphere – I use it like the Unremembered Remembering.

Noosphere – I approach it like the Immovable Moving.

I touch it like the Unfeeling-Feeling.

I know it like the Unborn-Bearing.

I think of it like the Uncognizable-Cognizing.

I see it like the Imageless-Depicting.

I hear it like the False-Musicizing.

I keep it in myself as the Unwanted-Wanting.

I die in it like the Destructive-Immortality.

And I reason through it as if through a Contradiction.

Defined as a contradiction, it combines in itself by continuity the definition of god and the human exile from it.

TYPES OF INTERPRETATION

The Noosphere is the objective, superpersonal and joyful attempt at regarding Humankind not as a Material-Technical Civilization closed in the destruction of time, but as a Collective Spirituality open in the perspective of the Eternal, developing independently of its material agent – the body, going beyond space and time and taking the form of a Planetary Mental Wrap around the Earth, high in Space as its own spirit, reaching the status of a substance. In this sense Noosphere is the Psyche's emancipation from the Brain, the separation of humankind's thoughts from thinking people themselves, and their unification into a thinking realm of their own, outside Space and Time; Emancipation of all truthful judgments from thinking subjects. Separation and autonomy of logical operations from logists, detachment of emotions from the feeling subjects, emancipation of dreams from the dreaming, but also emancipation of sorrow from the sorrowful; Closeness between Energy and Thought, between non-thinking energy and non-energetic thought into an energy that thinks and a thought that energize; A Planetary Shell, a reservoir of memory, feelings, cognition and habits which emanates towards the individual emotions, intellect and memory at his birth, and into which his emotions, judgments and wills return at his

death; But therefore, such an objective and common for all personalities Mental Sphere round the Earth thanks to which modern man feels with Sophocles' emotions and thinks with Aristoteles' thoughts: the general mental transpersonal substance, handed down through ages, to which each individual soul is just an emanation.

Regarded sociologically, the Noosphere is substance of Intersubjectivity. Regarded psychologically, the Noosphere becomes understandable as an Objective Planetary Psyche. Differentiated, it is an Objective Will, Objective Memory, Objective Consciousness, Objective Intellect, Objective Emotion, and so on.¹⁾ But Noosphere is not an independent spiritual or cognitive shell around the earth: there are convincing evidence (quantum-mechanical and cosmological) about its connection with the Cosmic Mental Plasm of the Universe, and in this sense it can be regarded as a humanitarian modification of the Sensibility Universe.

To those who love the context of traditions we can remind that Noosphere is Plato's *Topos Noetos*, the pure intelligible kingdom of Plato's *Eidoses*, the dimensionless habitat of the sum total of all true judgments, the continuum of all possible truths, both refuted and not, we would even say the motherland of Meanings which the Union of all *Universalia*, or the Union of Abstractions, *Unio Predicabilia*, has won for itself; Plotin's *Uniform* and its emanations; Leibniz' *Monads*, "The Space as God's Habitat" – Newton's *Horologium Dei*, Popper's "Third World of Knowledge in an Objective Sense", Husserl's *Transcendental Ego*, and Husserl's *Transcendental "Ego-Cogito-Cogitatum"* as a substance of his *super-rationalism*; Bergson's time-creating "Vital Impulse" that puts global spirit into individual spirit through "Duree"; the Noosphere culminating in its god "Omega" by Chardin; Whitehead's *God-Process*; Bohm's *Quantum Group Reason* as the subject of *Hidden Order* - a modern modification of the Noosphere; Our understanding of it as a *Reflection of Memoria Mundi of Punctum Singularis into Corpus Callosum as Omni-intersignum* (the Union of all symbols and meanings in their *omni-inte-rpredication*), and its subject. The quantum-mechanical *Collective Inter-Ego*, and so on...

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Noosphere is an ontological criticism of all possible epistemologies. Noosphere declares war on all physical theories that regard the Universe solely as physical matter, ignoring the Subjectivity that cognizes it. Noosphere makes impossible the appearance of all dogmatic sciences that treat the Universe as an inanimate substance: on the contrary, the appearance of a science in the noosphere and its becoming a cognitive discipline requires that this science includes cognizing subjectivity into its subject. But insofar as such joining of the Cognizing to the Cognized simultaneously by a single act provides final knowledge, makes sciences senseless and cognition - impossible, it shows unambiguously that sciences should lose their traditional status if they want to appear in the Noosphere, and that their differentiation as disciplines requires more than the criteria of fractionality stemming from the subject-object opposition that deforms the universe. What is needed are the new criteria of Wholeness in which elementary particles already become equivalent of signs. Because the salient feature

of Wholeness as a cosmological paradigm is precisely this transformation of energy into meaning, and from this transformation we work out the Fundamental Law of equivalence of energy and semantics: $E = Sem. (V > C). Alocality$

The above formula shows that under the following conditions: superlight speed area of events and alocality (characteristics of a quantum-mechanical reality), Energy turns into a Spiritus and a Meaning.

The postulate of inter-transformation on an ultramicroscopic level of elementary particles into signs, and of signs into elementary particles is possible thanks to the unification of their syntaxes into a common ontological syntax, which, being asemantic, is omnisemantic.

Similar conclusions can be reached also by the interpretation of other two formulas: that of Heisenberg about the Correlation of Indefinitenesses, and our formula about the transformation of the Wave Function into a Perception Function, that takes place during the destruction of the Wave Function in the act of its observation (measurement).

Heisenberg's Correlation of Indefinitenesses $E. T = h$ shows that we cannot explain the Indefiniteness in measuring simultaneously Energy "E" and Time "T" otherwise than by the transformation of Energy into Time, and vice versa – of Time into Energy.

But if in this formula we replace "T" with "Semantics", we shall reach to a similar correlation of Indefinitenesses between Energy and Semantics:

$E. Sem = h$. And if we introduce additional conditions for hyperlucidity and alocality (immanently set in Heisenberg's correlation), we shall likewise establish that the only adequate explanation of Indefinitenesses between Energy and Semantics is the direct transformation of Energy into Semantics (an event which we believe is observed in the conditions of the universe's shrinking, tending to Singularity, therefore in the Gravitational collapse of Black Holes too).

SEMIOTIC DESCRIPTION OF WORLD SINGULARITY

There are theories proving that Energy is transformed into Semantics during the Big Collapse and the Universe's dying-return into *Punctum Singularis*, which means every time when the star's gravitational collapse goes beyond Chandrasekar's boundary. The change of time direction in such big collapsing objects shows that vice versa, Semantics becomes Energy during the Big Bang and the Universe's birth out of *Punctum Singularis*. Obviously whoever wants to observe the transformation of Energy into Semantics should try to provide conditions imitating a Gravitational Collapse resulting into death of the universe, or a Black Hole; likewise, whoever wants to observe the transformation of Semantics into Energy should provide conditions imitating the Anti-gravitational Big Bang, but in both cases he should conform conditions to their compulsory passing through the stage of Singularity; insofar as Singularity is the Point of worlds' inter-transformation, the point where Matter becomes a Spirit, and Spirit – a Matter, *Onthoses* become *Eidoses* during the Big Contraction, and *Eidoses* become *Ontoses* during the Big Bang and the Big Expansion. (The manifestations of Singularity are not just physical states similar to those described by Hawking and physicists. These manifestations are also purely ontological states such as Nothingness, Symmetry,

Equality, Infiniteness, and others.) Those prompted by a natural need to overstep their own boundaries, relate physical with metaphysical attitude, and long for such interpretations, can sum them up as follows: the universe's birth is but a transformation of the Objective World Semantics of Memoria Mundi of Punctum Singularis into the world energy of the visible universe. And vice versa, the dying, shrinking and return of the universe into Punctum Singularis acts as a transformer of world energy into world semantics. But if the dying of the universe means that its energy acquires the form of a meaning, then obviously Semantics is the content of Punctum Singularis. When Semantics is transformed into Energy – the universe is born. When Energy is transformed into Semantics the universe dies. The destruction of World Knowledge gives birth to matter and the universe. The destruction of matter and the universe restores World Knowledge. The universe's material death is resurrection of Semantic God. The destruction of Semantic God is the birth of material universe.

But if the description of the Big Bang, starting from Singularity, and of the Big Collapse, ending with Singularity, are at the same time an approximate description of Black Holes, insofar as the latter are a miniature of the Big Contraction and Singularity, then obviously the Black Holes should behave as Cosmic Local Consciousnesses. The contrary would also be true: every human being should behave as a Black Hole. The defense of such thesis demands a number of prerequisites. We can remember that Consciousness is an ontological mechanism of dematerialization and detemporalization.* That every consciousness, insofar as it is a cosmological machine of transforming Past and Future into Memory, is a cosmological machine of Memory-formation, and this transformation is effected as a transformation of Energy into Semantics, while it itself takes place as an act of destroying the Perception, and restoring the Wave Function. The semantic substance is described by a Wave Function, insofar as in the past we had proved the Quantum-mechanical status of Universalities, and that Plato's Ideas (Categories) are but Quantum-mechanical punctums. Hence, if the transformation of Energy into Semantics is identical with the transformation of Past and Future into Present-Memory (and that is what we observe during the Gravitational collapse at the death of the universe and the formation of Black Holes), then obviously we would not be wrong to maintain that the universe's Big Bang realizes a World Consciousness, while the Black Holes' local collapses behave as smaller, but also local, cosmic creatures.

NEW SEMIOTIC DESCRIPTION OF SINGULARITY

Singularity is traditionally discussed geometrically and the models for it are built as geometric models, which is a methodological mistake we make. Insofar as Singularity points to the Disappearance of the classical objects of physics and the Failure of all of the physical laws in it, we have no right to assign a geometric image to Singularity, and, generally, any

* If Time is a cosmological machine of transforming the Quantum Future into a Macroscopic Present, then Consciousness is the reverse cosmological machine for transforming the macroscopic present into a quantum future and quantum past, and transforming these past and future into Memory.

kind of imagery would be unsuitable and Meaningless. What remains for us is to discuss Singularity algebraically, symbolically, or simply in a sign way – insofar as the sign aspect does not imply visual and sensory counterparts.

On a third hand, Singularity is a Sign, which unambiguously points to the failure of the Conceptions of Existence, and invites us to enter into a new sphere, which we may call “Building of Models out of Nothingness”, which, for its part, means that by Singularity we go out of and leave the Ontology of Existence and enter into the Ontology of Nothingness.

But we could have just Pseudo-Concepts about Nothingness; the Mental Images, which we are building for Singularity (as a Nihilistic manifestation) can only be Pseudo-Images, and the very Concepts, expressing the Singularity of Nothingness, can only be Pseudo-Concepts, or they can only be Negative Concepts.

Singularity, or the Black Hole, is the first Physical Manifestation (Pseudo-manifestation) of Theoretical and Metaphysical Nothingness.

In this way, by way of Singularity and the Black Hole, Physics has, for the first time, got spontaneously closer to Philosophy, and, what is erroneously referred to as a “Physical Object” is no other than just “a Metaphysical Object”.

This enables us to define Singularity as “a Nihilistically-Semiotic Object”.

After these prerequisites, our attempts to correct the traditional geometric concepts and descriptions of Singularity and the Black Hole become clear.

Unlike the discussion of Singularity as a Point, an Infinitely small Sphere, or as a Ring (Ker), we give a purely Nihilistic-Semiotic Presentation of Singularity, i.e. as Dimensionless Pseudo-point of Mutual Transformation of the Worlds.

The Semiotic-Nihilistic discussion of Singularity yet enables us to present it via some Pseudo-Concepts, where our only consolation remains the clear awareness that these concepts are exclusively “Pseudo-Concepts”.

The nihilistic description of Singularity enables us to refer to it just as a type of “Metaphysical Nothingness” or a kind of “Nihilistic Nothingness”.

The Semiotic description of Singularity enables us to interpret it as a peculiar Sign, which carries out the Mutual Transformation of the Material Sensitive Universe into Immaterial Psychic Universe.

Precisely the Treatment of Singularity as a Sign makes possible the respective description and discussion of Singularity as a Pseudo-Point of Transition and Mutual Transformation of the Material Universe into a Psychic Universe and vice versa.

Under the term “Psychic”, we shall comprehend here in all cases not the idea about the subjective psyche of man, but a new heretical concept about “the Objective Psyche of the Universe”, hence the Notion of “Objective Mentality”.

One of the fundamental features of the Semiotic Descriptions is the Indirect Description of the object, where not the object itself is described, but these Transformations, which the worlds undergo in it – as a Sign – on the way of their mutual transformation.

The indirect description of Singularity enables us to describe it pseudo-algebraically as “A Sign of Equality”, which Sign of Equality, for its part, enables us to put it down as a pseudo-algebraic Equation, which we call a “Semiotic Equation”.

What we want to emphasize here is that the Sign itself, as such, is exhausted by the Sign of “Equality”. That the sign of Equality has, before everything else, transformative

Power, and that most of the great discoveries of the human genius have been inspired by this “Mystic Transformational Power of Equality”, which, by itself, is nothing else but “A Transformational Power of Symmetry”.

Because Symmetry is the factor transforming and transfiguring the ontologies one into another. Symmetry is the factor transforming the most faraway and absolute opposites one into the other.

And precisely the fact that it, the Symmetry, equalizing each thing with each thing and everything with everything, by creating the Similarities, creates the Inimitable, and by creating the Identities, creates the Differences, and this is the most inimitable and paradoxical in it!

If we want to understand – why precisely out of Symmetry does Nothingness emerge (a question which must surprise most the fractional geometricians) – we must become aware that precisely by turning everything into everything, and by equalizing and leveling out everything with everything, through the very act of leveling out the differences and achieving the absolute equalization of everything with everything the Symmetry reaches the greatest destruction; it reaches the Nothingness and becomes itself nothingness, because by annihilating every difference, it does not leave anything in existence.

That the Sign, which disappears in the Equality, and the Equality which disappears in the Symmetry places on either side of the Symmetry (the Equality) the Differences, and then declares the equivalent of these differentials in no other way but by transforming them one into the other – that Symmetry makes of equal value the different ontologies transforming them one into another, and that the very act of Equality and Identity must be considered as the result of the act of Transformation – is the most mystical essence of Symmetry, which is simultaneously in the basis of the Equation, in the basis of the Transformation, and in the basis of the Sign, and in the basis of Nothingness.

The most general case of the Semiotic equation is the Equation of the Mutual transformation of Semantics into Syntax, of the Material-Sensory Order into Ideal Order of Abstract Entities, and the other way round: where placed on the one side of the sign of Equality are the Semantic Operations, while placed on the other side of the Equality are the Syntactic operations.

In this way “The Semiotic Equation” comes into being, which is an equation of making of equal value the Energy Semantics and the Information Syntax.

Insofar as Semantics is an expression of Energy, and Syntax is an expression of Information, this may be put also in the following way: Energy is expressed by way of Semantics, and Information is expressed by way of Syntax.

We have to bear in mind here a Philosophical Lemma, according to which Semantics is Existence, and Syntax is Nothingness, as well as that Energy is Semantic, and Information

* The postulate of Dialogical logic, that “only all ideas got together pursuit Reality” is not correct and remains just an ideal, since not all ideas have been created yet, and always new ideas could be created. Hence, this postulate could never be complete and therefore, the continuum of ideas would never overtake Reality.

is Syntactic.

Hence the Semantic operations are operations of Existence, while the Syntactical operations are operations of the Nothingness.

We can put down these Semiotic Equations, which just present “The Sign of Equality” as “A Transformational Operator”.

Semantics = Syntax

Energy = Information

Existence = Nothingness

(Precisely because in traditional mathematics it is impossible to place a Sign of Equality between two objects of different kind – (as it is banned to multiply four horses by four free wills and to obtain 16 objects) – insofar as mathematics is a science of Quantity, while the First Definition of Quantity is that it is a realm of events of Equal Kind and Equal Quality, which transforms mathematics into a discipline operating with equal kinds, or it is just a simple logic of Homogeneity – precisely here the advantage of the Sign Semiotic Pseudo-Mathematics stands out: it makes possible operations with objects of different kinds and different quality; it turns the Semiotic equations into a “Quality Equations” type, and Semiotics itself becomes a discipline of calculating Heterogeneous events, or Semiotics is one of the first attempts at Qualitative Mathematics.)

It is precisely the Semiotic description of Singularity, which enables us to present Singularity as a Sign of Equality, as a Sign of Mutual Transformation of Macroscopic-Sensorial Order into Ideal Non-Sensorial Abstract Order, or the Mutual Transformation of the Material World into a Psychic World.

After all these preliminary stipulations we can already get into the specific Semiotic description of Singularity and of the Black Hole as a peculiar type of a “Semiotic Equation”, i. e. an Equation, presenting “The Transformative nature of the Sign of Equality” and showing “the Transformative Power of the Sign of Equality”.

In Semiotics, generally, every Sign can play the role of a “Semiotic Equation” and be presented as Operator of “Transformative Equality”. This makes it possible to provide the most general definition of a Sign: the Sign is a Transformative Machine of Making Ontologies of Equal Value.

Or, the Sign is a Machine of Informational-Energetic Transformations.

This is so, because the Sign itself always remains concealed and imperceptible (in the same way as Singularity remains imperceptible and concealed), whereas the transformations it provokes are perceptible, and precisely these transformations are its meanings. What is noteworthy here is that we present the Meanings as Transformations. In the same way Singularity remains concealed, while only its transformations are noticeable and presentable.

For the purpose of our presentation, of particular validity is the last definition: the sign is a tool of Energetic-Informational transformations.

But then if we have already lent the characteristics of a Sign to Singularity, then obviously Singularity is “a Semiotic Transformative Equality between Energetic and Informational processes”.

Insofar as Singularity is a Sign, it is “Transformative Equality between Existential and Essential ontologies. Between Ontologically-Nihilistic Ontologies. Between Material-Ideal Ontologies or Orders, and so on and so forth.”

Now we can proceed to a specific interpretation.

Whereas in the Macroscopic classical world, as in the relativistic world of Minkowski-Einstein, the continuum Energy is imprisoned into Geometry, (insofar as the “Minkowski-Einstein continuum”, as a “Space-Time continuum” is due to the “Form-Energy Association”), then by passing into Singularity, the Energy is freed at last from its geometry prison; it gets out of Geometry, becomes liberated from the synonymy and single dimension of the geometrical form, regaining its Multidimensional nature and its initial Formless Omni-Directed Propagation, where corresponding to each one of its dimensions is one Abstract Entity of an Ideal Order of a Quantum Realm.

FROM “MEDITATION TECHNIQUES”

“WHY CONCENTRATING MEANS TO EXPLODE? – your student is asking, and I tell you: Because Concentration is Explosion. Concentration is condensation of Energy. Beyond certain limit the condensation of Energy becomes a transformation of Energy into Memory, the Memory destroys perception and Time and restores Eternity. Destroying perception and the time of past and future, Memory gives birth to Consciousness. And Consciousness-present and Perception-time are in a permanent conflict. This conflict determines the fate of the Universe as a location of events at every point and moment.

DESCRIPTION OF THE NON-SENSORY ROAD

Concentration is non-perception. Non-perception is destruction of time. Destruction of time is Memory. Memory is restoration of Consciousness. Memory is restoration of Eternity.

But here is a more truthful description of Non-sensory Road:

Concentration is convergence of Energy. Convergence of energy is a substantial change: the transformation of matter into an idea. The congestion, the endless density given infinite increase of concentration, leads to an incredible rise of Temperature, and it on its part increases energy further. This incredible growth of Energy destroys all known and possible physical ties between particles, until the particles themselves are destroyed, while the maximum compactified Energy destroys in a self-aggressive way its own physical form and shifts into another stage and in another aggregate state of being: memory, meaning or spirit. (Spirit is will coupled with memory). We can note that given mental and psychical concentration into meditation, energy and matter experience the same cycle of changes experienced by the Universe during its Big Contraction and collapse into Big Singularity. That is why we say that concentration during meditation and creativity contracts the matter into a dimensionless point and transmits it into Memory in the same way as does the Universe in its collapse into Big Singularity. But if this is so, then it becomes understandable why every creativity inevitably and immediately follows concentration and why it has an

explosive-turbulent-illuminative nature. Because the preliminary concentration is a necessary prerequisite for the Big Bang, as well as for every explosion. Moreover we maintain that every creativity repeats (echoes) Big Bang, insofar as it frees the energy, which the concentration has limited in the dimensionless space of superposition and super-ontation. It is more correct to say: The act of creativity as an explosion frees, as a secondary energy, Semantics into which preliminary concentration has transformed the primary energy, i.e. here we define Semantics as Secondary Energy as regards the Primary Energy of the Matter. Consequently, while concentration transforms energy into semantics (memory-consciousness-present), creativity re-transforms backwards semantics and memory into energy.

This is the way we draw our formulas.

To enter Consciousness means to turn off Perception.

To enter Perception means to turn off Consciousness.

To concentrate oneself means to destroy perception.

To percept means to destroy concentration.

Concentration winds the universe in a point. Perception unwinds the point into a universe. To perceive Universe means to destroy the universe's concentration. Universe's Concentration is Universe's Memory. By self-concentration, the Universe self-acquires the state of Memory. The Memory of the Universe is the World Wave Function.

To concentrate oneself means to enter Quantum mechanics. To concentrate oneself means to assume the pose of a Wave Function. That is why concentration is the entry into quantum reality. That is why perception, that is the result of de-concentration, is the exit from Quantum reality.

The pose of concentration is the Figure of Wave function. Perception has the form of the destructed concentration. Perception is the figure assumed by the destructed Wave Function. All perceptions are destructed concentrations = destructed Wave Functions. All concentrations are destructed perceptions = restored Wave Functions.

That is why the basic conflict within which the Universe develops is the cosmological conflict between the Wave Function and the Perception Function, or Between the Wave function of Memory and the Perception function of Matter, between the Wave function of quantum-mechanical Memory and the Perception function of the macroscopic matter.