Options & Choices, Doubts & Decisions
(Precisioning the Pivot Point of Power)

Otto van Nieuwenhuijze

Independent Research Scientist, Amsterdam, the Netherlands

nowhere@wanadoo.nl - http://ourworld.compuserve.com/homepages/mathemedics_arts

Abstract

All man made models are reflection of our own functioning, origin, and involvement in life. 'Reality' is in fact a Realisation, totally dependent on, and conditioned by, the way we relate to our environment. This Involvement can be described in terms of a Boundary Transition; relating the perspectives of an Insider, Inter-actor, Reactor and Outsider. In our body and being, these are *simultaneous* modes of being (and determinant for our experience of life, and health). These changes in degree of involvement are in essence the same as the changes in degree of recursion, as seen in the relationship between, e.g. solids, liquids, gas and plasma; all of which can be unified in a description of relations of Phase. By using Phase Space as the 'common denominator' for our perception of reality, we can describe the characteristics of our realisations in the same terms. The relationships between **Options & Choices, Doubts & Decisions** then are clarifiers for the changes in involvement, perspective, realisation, and thus the 'reality' (life health) that we live (individually and collectively). This pattern of involvement (with its dynamics and conditions, and fundamental basis) needs to be explicitly described, and accounted for, because *all* the models we make are based on our own functioning (including the shortcomings in our own self-understanding). By explicitly describing the changes in involvement, we can reconcile difference between our own experience, and those with of others, which helps reconcile fundamental issues of (mis)understanding. It also makes it possible to relate seemingly different models, which is again relevant for resolving issues such as the difference between Subjective and Objective observation, which again can be expressed in terms of Crossing a Boundary; for which our shift in involvement (thus Locus of Control) is the key concept. The ([4D]) logical relationship between our Options & Choices, Doubts & Decisions are the our most immediate 'handle' on the reality and life that we live.

Keywords: Choice, Options, Decisions, Doubts, Control, Experience

1 Introduction

Living beings are Open-Closed system; they can not be described, thus not understood, in terms of Closed Systems models (such as those of classical physics). The invariance of closed systems is fundamentally different from the Autopoiesis of living systems. Science has already come to realise this and changed its basic model, over the last 100+ years, from a Classical ('mechanistic'/material) to Relativistic (process/chemical) and Probabilistic (transformational /electromagnetic) to Unified (integral/phase) perspective, in which the Outsider Observer became in fact integrated with/in the observation. This turn-about can be summarised as: Reality is now realised to be but a

Realisation; and the involvement of the human, in realising, determines the outcome/experience. This however requires an understanding of the role, and consequences, of human involvement in the realisation of reality.

This paper addresses this issue from a fundamental perspective: it regards the virtual 'boundary' between reality and realisation (a.k.a. "the Veil of Maya") as a typical boundary. The shift of involvement of the human observer can then be described in the same terminology as any other boundary transition; and understood in the same way as any of the 'boundary transitions' described in Science, explored in Art, applied in Trade or experienced in Mysticism. The relationship between Subjective and Objective (or Observer versus Creator) is than simply the transition from "Outside" to 'Inside' across/through that 'boundary'. This type of boundary transition can be i.a. described in terms of (Transcendental) Systems Theory (O#o, 1995).

There is one fundamental issue to be considered: the re-interpretation of the models of Systems Theory (i.e., the concept of Boundary Transition), in terms of Subjective experience, can *not* be understood, nor described, in Objective terms, such as described by physics, mathematics or philosophy. Physics is too limited to the phenomenal objects, mathematics does not sufficiently realise that it is a formulation of operations in the mind (O#o, 1997c), and philosophy is too often still considered to be an abstraction of reality, instead of a formulation of/for our realisation. What is needed is an interpretation of these formulations (of (Transcendental) Systems Theory) in terms of metaphysics, i.e. the information processing from which our realisation of reality stems.

The following positions the Human at the crux of that Interface, on the pivot point (of Power), where reality and realisation are interwoven (cf. a river and a bedding), and interchange. The core issue is that of Phase Relationships, which requires the introduction of the principles of Phase Space, the dynamics of phase relationships in interfacing, and the concepts of Emergent Boundaries (for which 'The Barrier of Light' serves as model), to show how our body is our best example of these principles of Dynamic Interfacing (and of the way reality and realisation interrelate). This can be made more specific by presenting the ([4D]) logical relationship between Options & Choices, Doubts & Decisions, and the fundamental role they (i.e. our involvement) plays in our life (e.g. as Life & Health, Disease & Death).

2   From Physics to Phasics

Over the past century, science has made an about turn. In the transition from Classical to Relativistic to Probabilistic and now Unified Theory, the observer has been relocated respectively from Outsider and Reactor to Inter-actor and Creator (Insider). Science has difficulty to deal with this, because it means that Objective Science is based, always, on Subjective Being(s). This is why the role of the human realisation needs to be understood.

2.1   Phase Space

Over the past 100+ years, science has 'dissolved' the concept of reality, by 'zooming in' on matter (physics), to find molecules (chemistry), atoms (electromagnetism) and

subatomic fields (information), respectively. All these perspectives of realisation require different modes of description, because the (self) identification in the process of perception is different: Objects, Processes, Transformations and Emergence (or Creation), respectively. The integrative concept is that of Phase (O#o, 1999) (as alchemist already implied).

2.2 Phase Relations

Phase space is not a 'steady' State, or Process Dynamic, or Transformation Condition, or Emergent Principle, but all of these. It depends on our perspective, thus involvement, how it is perceived (this is also the reason why the 4 Fundamental Forces of Physics are in fact one; they describe perceptional perspectives, integrated by our involvement). *The most fundamental phase relationship is that of our own involvement*; its emergence and dissolution can be described as the transition of a 'virtual' boundary, (by which we resolve or dissolve our involvement in reality: our realisation). It is this property that underlies all 'findings of science'. It can be summarised as the principle of System Inversion (or Boundary Transition), as expressed and experienced in our being.

2.3 Interference Patterns

Because phase relationships are dynamic, their interrelationships are transformative always. There is a continuous loss and gain of phase entrainment (O#o, 1999), as Interference Pattern. This is the basic form of Boundary definition, in which the interfacing is determined by the inner-phasing, through which the different sides of the boundary ('a site of inversion of phase') are separated, and linked. Relationships and States are specific modulations, in context, of Interfacing.

2.4 Phase Genesis

The Genesis of Phase Fields underlies the nature of Phase Interference Process Patterns. Phase (space) is the underlying common denominator of the reality in/by which we live. Phase fields themselves can only be inferred, because manifestation is but one of its modulations. Points in phase space are by potential definition sites of phase inversion. (Boundaries represent sites of inversions of phase; Fields represent continuity of phase, and Filters sites of modulation of phase). Materialisation (Solid, Liquid, Gas and Plasma) represents different degrees of recursion of phase organisation.

3   Inter-Inner-phasing

Phase relationships are all based on the principle of phase inversion. All interference patterns (and materialisations) are based on this, and reflect this property: they are always simultaneously separated & connected. All our descriptions thus need to be dual. Any formulation pertaining to interfacing (phase variation) simultaneously denotes the inner-phasing (phase transitions). (Alchemist described this under the term "Transmutation".)

3.1 Boundary Fields: Separated & Connected

A Boundary is the dual of a Field; in essence both are the same. The distinction depends on *our* involvement: *we* make the distinction (by changing our involvement). Our body itself represents a distinction (or interfacing boundary: a Filter) in that sense.

3.2 Interfacing = Inner-Phasing

Instead of using the dual notion of Boundaries & Fields, it is simpler to use the term "Interfaces", in which both are combined. Our body represents an Interface in that sense.

3.3 Filter

An Interface, regarded in context, is known as a Filter. It incorporates both a qualitative (open system) and quantitative (closed system) perspective. Our body represents a Filter in that sense.

3.4 4 Phase Logic

A 4D point is the essential pivot in phase space generation. Its nature can be defined in terms of 4D Dynamic Logic (O#o, 1982), and contains static and dynamic, real and virtual, local and non-local, and observational and experiential terms (O#o, 1999). It is holoform: simultaneously an interfacer and inner-phaser, which simultaneously affects the properties of the environment and itself. This makes it different from physical objects, as studied in science, and needs to be understood in terms of phase information, as seen also in all living beings. (Herein the properties of (outer) transformation need to be supplemented with those of (inner) transmutation. (Kervran, 1976))

4 The Edge of Reality

Reality is a Realisation, which depends on our involvement; which is based on our body, which in itself is a reflection of a 4D logical process(or). (O#o, 1996) All descriptions in Science (as well as Art, Trade and Mysticism) are reflection of our own internal functioning. All formulations of delimiting definitions of science, represent limitations in our own processing capacities. The "Barrier of Light" is an example in case: it reflects a barrier of *consciousness* (and is defined by the same principles as any other critical boundary (Langhaar, 1951) To understand the implications more deeply, limitations of our realisations will be shown in terms of the four main theories of science:

4.1 The Edge of Classical Science

Classical science regards reality as if an object; by presenting the scientist as Outsider Observer. Observations are represented as Statements of facts, thus **Decisions**. It ignores that this reality is a realisation, the findings psychological artefacts, and the realisations relative to our own frames of perception.

As these relate to descriptions of State, they can be formulated in Objective (or 1st Order) Terms.

4.2 The Edge of Relativity

The Theory of Relativity realises that reality is relative to our own perception, (thus attachment or involvement) represented by the speed of Light. As a result, it regards reality as a process, bounded by our scope of perception (represented by the Event Horizon). All findings represent **Choices** in domain definition.

As these relate to Process relationships, they require Relative (or 2nd Order) Terms.

4.3 The Edge of Quantum Theory Science

Quantum Theory realises that reality is determined by our realising. As a result, it regards reality as a probability transformation, determined by our own involvement (or collapse of the state vector). Whatever reality we experience is a Choice from amongst selected equivalent **Options** of interaction.

As these relate to State Transformations, they require Conditional (or 3rd Order) Terms.

4.4 The Edge of Field Theory

(Unified) Field Theory is beginning to realise that reality is a realisation: whatever we perceive is wholly based on our own internal state, processing and (self)transformation. All findings are a result of our own (self)realisation, and reflective of our **Doubts**.

Because they pertain to state definitions, these require conceptional (or 4th Order) Terms. This transcends the capacities of objective descriptive languaging.

5 The Edge of Physical Reality

Whatever we hold to be real is determined and defined by the mechanism of our processes of Realisation, their limitations and nature. We cannot formulate the limitations of our capacities for realisation, because Languaging (Maturana & Varela, 1980) is an interfacing construct, which cannot address the phase domain on which it is based (Lao Tzu, Tao The King). Although we cannot perceive the limitations of our models (and our modelling), we can perceive these limitations through our models; the limitations of our models reflect both *their* shortcomings in their grasp of reality (due to our making), and *our* shortcomings in our grasp of our realisation.
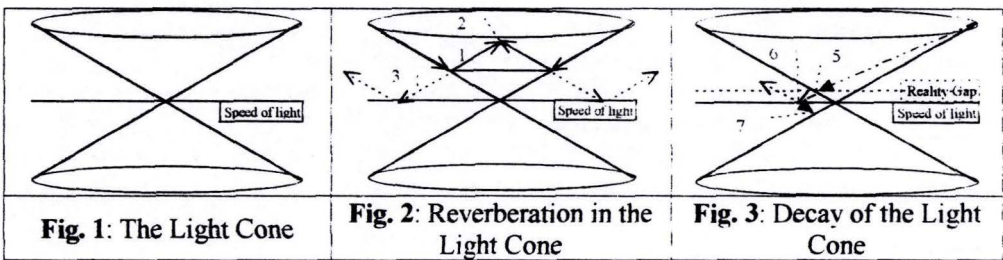
The following points this out by taking one typical model, that of the Barrier of Light. It is a specific instance of, and representative for, the general principle of Boundary Transition (or System Inversion). In a subjective sense it represents our (in)capacities for self-reflection (and thus typifies our Blind Spots): it is a model of our own Barrier of Consciousness (O≠o, 1999). In this model, we have a practical way of describing and understanding the role of our own involvement. What is described below as properties of/at the Barrier of Light, is thus in fact/effect a representation of the way in which we 'navigate' between realities, by changing our states of attachment/detachment.

5.1 Zooming in on the Barrier of Light

The model of 'the Light Cone' (of relativity) assumes that the speed of light is invariant; this is an erroneous assumption. (Davidson, 1989). The model is yet useful because it is example (one amongst many) of Behaviour at a (super) critical System Boundary. It is comparable to the Speed of Sound, and other critical parameters as defined in Dimensinal Analysis. (Langhaar, 1952.) As any other Interface, it can be used to better understand the criteria of system stability and collapse. Here it is presented as metaphor for our own functioning: "what happens 'in the light cone', happens within us". (our existence is based on Total System Inversion, for which the Light Cone is one (amongst many) useful description(s).)

5.2 The Light Cone

The Interface represented by the Light Cone (Fig. 1) specifies a critical boundary transition, between a bounding plane and a Critical Point: the vertex of the cone. This is the point of System Inversion, and a singularity for the system. (O#o, 1997.). (In a more refined approach he same transition can be described in terms of a vortex. (Edwards, 1993; O#o, 1995, Winter, 1992).) The (in)stabilities of this boundary transition can be exemplified in the following images:

Fig. 1: The Light Cone	**Fig. 2**: Reverberation in the Light Cone	**Fig. 3**: Decay of the Light Cone

Boundary transitions have four phases: 1) Defined (Closed) System, Critical Boundary definition, 3) Super Critical (escape) conditions, and 4) Unbounded (Open) System.

5.3 Reverberations in The Light Cone

The speed of light is variable, depending on the medium, the conditions, our observation, and our state of being (Tiller, 1997). Due to this the Light Cone will not be straight; it may be asymmetric or even non-linear. The linearised model is subset of a much more general set of ((non)linear) boundary transitions. The singularities seen are most often reflective for the mathematical limitations in/of/by the model (O#o, 1985), i.e. of our mode of observation, not reality. In the more general interpretation, transitions at the Light Cone can be *reverberant*, instead of simple/linear. (Fig. 2.)

5.4 The Quantum Jump and The Light Cone

Reverberation *in* the light cone reflect on reverberations *of* the light cone: the boundary (equations) need to be adapted to the phenoumenon in process. (Fig. 3.) (This system re-stabilisation is seen in the quantum transitions, in the range where electron

orbits are not of resonant/real wavelength N, but of insonant/imaginary wavelength N ± ½; i.e. at the level where the wave field medium itself is defined.) It is at this level that the emergence of boundaries can be understood.

6 Boundary Transitions

Knowing that Boundaries are Interference Patterns (and the inverse of a Field), it is clear that Boundary Transitions are dynamic phase modulations, in which the 'wave pattern' is inverted, and the Boundary (Foreground) emerges from the Field (Background) in correspondence with, and as reflection of, our own change of involvement (immersed or detached).

6.1 Vortex transitions

The light cone represents a transition from a critical plane (the Cone) *through* a critical (inversion) point. The natural representation for this is a Vortex (Edwards, 1993), as described by i.a. the Mach conic. Relevant is the notion that such (Boundary) transitions represent sites of dimensional reduction/expansion (a volume through plane through a point): this is a specific system/Filter characteristic determinant for the system quality (open system relationships).

6.2 The (Only) Moment of Change

In a Vortex Transition, the rotation and angle of the vector of spin are changed: harmonisation (and (de)compression) of the phase relations take place. This is characteristic for System Inversion, i.e. the transition from a Close System to an Open System (or v.v.), thus for/of any change of involvement. The change of moment *in* a system reflects a moment of change *of* the system. The transitions of material phase, process phase, real/Imaginary phase, and (changes of coherence of) phase space are all equivalent terms (O#o, 1998c). (The difference lies in the com-plexity of the formulation of phase loop recurrence).

6.3 The (Only) Moment of Choice

Change in Phase (in)coherence (moment) determines the pattern of phase array (energy moment) which condition the moment (in time) specifying the phase state of coherence ('in'/of space). The moment of Phase change requires a (re(dis))connection of the part to/from the whole: this is meant by "Precisioning the Pivot Point of Power".

6.4 The Moment of Creation

Creation is the principle contained in the 4D dynamics of coherence of phase (Coherence/Consciousness); by which patterns of phase organisation (Energy), their patterns of dynamic recursion (Time) and forms of reverberation (Space) can be seen to emerge. The transition from Big Bang through Cosmic Gas (condensation) and Star formation (precipitation) to Planet Forming (congealing), is a representation of the principle/process of dynamic coherence of phase, by which our body is integrated with/in our environment (in/from/by which it emerged). "Creation" is an ongoing event.

7 Our Body as Interface

It is evident that our body is composed by all known and unknown laws of creation and nature. Likewise it is evident that our body is composed of all forms of matter: solid, liquid, gas and plasma. I.e.; it is in itself a direct example of phase integration. This is also the case with respect to its physical form, as physical identifiable (classical) object, as (relativistic) chemical process, as (probabilistic) electromagnetic transformation, and as (unified) information field. (The traditional terms for these process recursion levels are respectively: Body, Mind., Soul and Spirit.)

7.1 Our Body as Phase Field

It means that our body is a dynamic interface: it operates as a Filter within its environment, by its capacity to moderate and modulate phase information. It is also an autopoietic Interference pattern: our body is a reflection of an ongoing interaction of an information process, and a manifest phenomenal domain. Because both the environment and the body are definable in terms of phase space (as science now has come to see) it is simplest to regard our body as a dynamic Phase Field. (O#o, 1998d)

7.2 Phasics as the Basis of our Body

This being the case, it is rather impractical to regard our body as a classical physical object (anatomy), as relativistic chemical process (physiology), as probabilistic electromagnetic transformation (neurocrine), as it is all, as a integral phase information field (psychocybernetics). It is much more practical to regard our body, as reality, in terms of phase space, thus Phasics.

7.3 Our Body as Classical Relativistic Probability Field Processor

The phasical nature of our body implies all the principles of phase transmutation; inner-phasing and interfacing by the principles of a boundary field (interference pattern) in phase space. It is the phase information, and phases in formation, that are seen in the degrees of materialisation, i.e. recursion of the phase field as plasma, gas, fluid and solid (all at the same time). This is briefest formulated as: our body is an information processor, of phase space integration. (O#o: 1998c, 1998d.)

7.4 Phase Integration in our Body: Thinking, Feeling, Wanting, Being

The information processing operates by the 4D dynamic logic, i.e. it needs to account for the integral transformation process state. In our body this is seen in the form of 3 separate concurrent information processing modes, operating in respectively the head (thinking), heart (feeling), hara (doing) and holy bone (being). (O#o, 1997a). The reality of our life is thus both interactive and experiential; the objective models of i.a. science are based on subjective sensations.

8 Precisioning Our Involvement in Reality/Realisation

This brings us to the crux of this paper: the role of our own involvement as seen in the relationship between Options & Choices, Doubts & Decisions. Together they reflect the boundary transition in repositioning ourselves with respect to our

context/background. Our degree of involvement determines the degree of attachment (identification). At a larger scale these shifts in Locus of Control are seen as the identification modes known as respectively Classical, Relativistic, Probabilistic and Field Theory Science.)

8.1 Decisions

The most determined, thus deterministic, form of involvement in which there is identification with a Decision: a definite specification of interest (thus involvement). Decisions become pivot points in realisation, because they determine our attachments. In terms of a Boundary transition, this represents 'having crossed the boundary'. (Cf. Initiate, or Adult.)

8.2 Choices

A more relative, thus relativistic, mode of involvement is that of Choices. They juxtapose different equivalent alternatives, and change the bias by operating a shift in involvement. In terms of a Boundary transition, this represents the act of crossing the boundary. (Cf. Initiation or of Adolescence.)

8.3 Options

A more probabilistic mode of involvement operates at the level of option: it realises the existence of Alternatives, without activating a shift in perspective (of involvement). In terms of a Boundary transition, this represents the stepping up to the boundary, (Cf. Childhood.)

8.4 Doubts

The most integrated form of involvement is the mode of 'hovering at the edge': not-activating a shift in perspective by maintaining a balance between reality and realisation. In terms of a Boundary transition, this represents the stage of not realising the existence of a boundary (Cf. Babyhood.), or the act of not deciding.

9   Involvement: Life & Health, Disease & Death

What is experienced as our degree of Interfacing (our Involvement in Life, as Options & Choices, Doubts & Decisions), is an expression of our Inner-Phasing (our body organisation, and information processing in 'Head, Heart, Hara, and Holy Bone'). It is experienced in our experience of the integrity, or balance, between the two, as our quality of Life (our experience of reality, in Body, Mind, Soul and Spirit). This is 'gauged' in our experience of Life and Death, in Disease and Health.

9.1 Life (Health)

Life is the general denominator for the capacity to interactively (cor)respond with/in our environment. It is evident that human being and the life environment are both aspects of one integral process; our life experience and existence is based on the continued exchange, and preservation of integrity, between the two. This is an ongoing process that has continued (as humans) over millions and (as life) billions of years.

9.2 Health (Adaptation)

Health is the full span of dynamic interactions, in which internal and external adaptation are equally used to maintain the balance of the part in and the whole. This being the case, health includes the capacity to transmute between inner and outer experience (interfacing and inner-phasing) to restore and maintain that integrity/integration. In a practical sense this means that Health also spans all variations of 'disease', in a transient and resolvable form.

9.3 Disease (Compensation)

Disease is a reduced set of dynamic system solutions, in which some solutions are favoured at the expense of others. This means that the system need to compensate to maintain its own (biased) state, which can go at the expense of the environment or the system itself; usually both. Technically, this means that the system is in Compensation, an internal (inner-phasing) and external (interfacing) process/criterion have become con-fused, due to which the system boundary is partially inverted (thus lost). (O#o, 1989.)

9.4 Death (Decompensation)

Death is the immergent system state: the temporary existent Interference Field (the System Boundary, i.e. the system as Filter) has become resolved (thus dissolved) due to which the boundary of distinction no longer exists; the manifest (space time energy) form resorts to the more general mode of phase space information (consciousness). (This can thus not be described in terms of manifest forms.)

10 Conclusion

Our Body is our best example of the ([4D]) dynamic principles of Phase Integration, by which a part can be understood to be separate yet integrated in the whole. The principles of 'continued dynamic embedding in context', i.e Health, can be described in terms of Phasics, rather than physics, because some of the principles involved are more fundamental than the reality we can perceive and describe. This is because our 'reality' is based on our Realisation, which is again determined by our own embedding in our context. The change of Involvement can be described in terms of a Boundary Transition; Systems Theory offers ample descriptions for that. Yet, no external model or formulations can affect our internal degrees of freedom (and degrees of freedom is the essence of physical manifestation). Any internal change requires a Decision for a change in Involvement. What is needed is an understanding of the transition between different degrees of freedom/bonding; for which the Light Cone is a simplistic model: it identifies the principles, properties and problems of dimensional transition ((de)compression). This transition is experienced in all our changes in involvement; it can be described as the relationship, and transitions, between Options & Choices, Doubts and Decisions. (O#o, 1993). These are the (internal) 'handles' by which we operate our changes in involvement. This determines our realisation of reality, and thus the way we perceive reality, experience live, and health (or disease and death).

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