

TITLE

**4D Social Organisation - Solving Problems of/with Social Differentiation/Integration**

ABSTRACT

Humanity can be understood to be a system of Social Organisation, based on Individuals forming Relationships, thereby forming Groups (Relationships of Relationships) and Humanity. This can be modelled by the geometry of a Tetrahedron; thus as a Vortex in 4 Dimensions.

The development of social integration - from Baby to Child to Adolescent to Human(ity) - defines the integrity of Social Organisation. This can be correlated with the development from a Cell forming Organs forming our Body, and forming Humanity. Also, in 4 Dimensions.

Individual Integrity (Health) and Social Integrity (Peace) can therein be defined in the same (4D Vortex) model; which helps understand what can go wrong in social organisation (Social Disintegration; and its remedy: Curing Criminality). A Boundary Transition in 4 Dimensions.

It also helps understand the problems of humanity by the segregation of these four social dimensions (a.k.a. 3D Reality, 2D Law, 1D Money and 0D Freedom of Choice).

Social Stability (wHealth) is better understood from the perspective of Humanity ("Anticipation"), than that of the Human ("Differentiation"). A Realisation in 4 Dimensions.

KEY WORDS

Mathematics, Physics, Biologics, PsychoLogic, Sociologics, 4D Dynamic Logic, Human Development, Social Stability.

INTRODUCTION

Mathematics describes (models) Reality, but at the same time models us (our Realisation). In formulating "Equations", Mathematics formalises perceived Relationships; involvement. All our experiences are based on principles of involvement operating at the cellular level. The dynamics of cell boundary redefinition is based on the principles of cosmic creation:

| 0D    | 1D         | 2D            | 3D       |
|-------|------------|---------------|----------|
| Wave  | Wave train | Wave Envelope | Hologram |
| Point | Line       | Plane         | Volume   |
| Phase | Energy     | Time          | Space    |

Table 1. 4D representation of Universal Boundary/Phase Change.

Table 1 presents a fundamental approach for understanding boundary change in the universe. This is easiest presented by the model of wave mechanics, and the implied wave coherence. This allows for a 4D interpretation of any system boundary/definition change. This can then also be seen to operate in Cell Communication and Social Organisation.

|              |                  |                      |                  |
|--------------|------------------|----------------------|------------------|
| Photon-leap  | Electron-leap    | Electron-oscillation | Electron-bonding |
| Phase        | Atoms            | Molecules            | Matter           |
| Information  | Electromagnetism | Chemistry            | Physics          |
| Field Theory | Quantum Theory   | Relativity Theory    | Classical Theory |

Table 2. 4D Cell System Boundary transformation in Cell Organisation

Table 2 presents the same principle as it operates in Living Cell Organisation. In Cell Replication, the boundary doubles; a process taking place in 4 Dimensions: ‘Matter dissolves’, ‘Molecules evaporate’, and Atoms dis-/re-assemble; by Phase Change. The basis is that of phase reorganisation: in the integral electromagnetic field

|                 |                  |                |                 |
|-----------------|------------------|----------------|-----------------|
| Phase field     | Electromagnetism | Electron Flow  | Bound Electrons |
| Light           | Radio            | Chemistry      | Physics         |
| Pigments        | Hormones         | Enzymes        | Proteins        |
| Intelligent Gel | Transistor       | Liquid Crystal | Piezo-electric  |

Table 3. The living organism as an electromagnetic phase (change) Field.

Table 3 represents the same dynamic at the level of body organ cell interaction dynamics. in Cell Replication, the internal (Cell Cycle) Processes are externalised. There they appear as the (feedforward & Feedback) of Cell Communication. This is the foundation or organic coherence and body material manifestation.

|            |              |            |           |
|------------|--------------|------------|-----------|
| Choice     | Decision     | Conviction | Behaviour |
| Individual | Relationship | Group      | Humanity  |
| Vote       | Money        | Law        | Life      |
| Equation   | Operation    | Variables  | Values    |

Table 4. Humanity as organism operating by the principle of 4D Boundary Organisation.

Table 4 recapitulates the same principles as the operate, inside-out, in Humanity. Humanity is an integral organism, in which every Human is a Cell in the Body of Humanity. All communication between humans, is based on Cell Communications (at all 4D levels). This is an interaction of which our use of language, including mathematics, forms part.

## COSMOLOGY

“Creation” describes the process of cosmic creation ‘out of the void’. The Void can nowadays be described by the Quantum Field – as defined by Tetryonics. This quantum field is a pure electromagnetic distribution, of Quanta and Photons. As Tetryonics describes: these fields can form, and move, all forms of Matter.

In the conventional model cosmic manifestation can be described by a Vortex.  
This is the geometry that links a Point to a Line to a Plane to a Volume.  
A different representation for the same is the Tetrahedron (Point, Line, Plane, Volume).  
This relationship also pertains to the process of development from simplicity to complexity.

We see the same pattern of organisation/development in the growth of humans, and humanity.  
In Humans we see how cells form organs forming the body, and ultimately humanity.  
In Humanity we see how individuals form relationships forming groups forming Humanity.  
In both cases this can be modelled by a point forming a line to form a ring to form a volume.

The increase of complexity in organisation is perceived by different forms of consciousness:  
In our body we see how sensory cell, neurone, plexus and brain also operate in 4 Dimensions.  
There too we see the transition from a Point to a Line to a Plane to a Volume.  
At each level the code for communication uses another form of dimensional compression.

## MATHEMATICS

Mathematics is a Power Tool of/for Science; it can describe dimensional complexity.  
Science is an instrument for Angst/Anxiety Reduction for Humanity.  
Humanity is the 'Body' in which every Human is a 'Cell'.  
The processes of Cell Communication forms the basis of communication between Humans.

Mathematics is a special form of language, in that it can 'write itself'.  
Mathematics – unlike physics – does NOT describe Physical Objects.  
Instead, Mathematics describes abstract Relationships, between objects.  
Therein all objects can be replaced by other objects; if the relationship is maintained.

All descriptions imply a relationship between an Object and a Subject.  
In Mathematics, and Science, the Observation results in a Model; an Object in Language.  
In Science, and Mathematics, the Subject is the Scientist, in casus the Mathematician.  
The Subjective Sensation is always the basis for the Objective Description.

Mathematics is a language which has many forms and even more facets.  
All forms of Mathematics seek to help understand how we perceive reality.  
It is better to understand mathematics as a formulation of/for our Realisation.  
Because only then can we see why, and how, we create and define mathematics.

## META-MATHEMATICS

Meta-Mathematics describes that, and how, Mathematics reflects our Mind.  
We can correlate elements of Mathematical formulation to our mental processes.  
This means that Mathematics is a reflection of our mental processes/processing.  
Table 5 recapitulates the most important relationships which can be seen at that level.

| ‘1 <sup>st</sup> Gear’ | ‘2 <sup>nd</sup> Gear’ | ‘3 <sup>rd</sup> Gear’ | ‘4 <sup>th</sup> Gear’ |
|------------------------|------------------------|------------------------|------------------------|
| Dopamine               | Acetylcholine          | GABA                   | Serotonine             |
| Choice                 | Variation              | Transformation         | Integration            |
| Values                 | Variables              | Operators              | Equation (Sign)        |

Table 5. The relationship between neurotransmitters and mathematical equations.

Mathematics can thus be regarded as an expression of our mental processes.  
 Mathematics can thereby be used as a ‘rear view mirror’ to describe mental processes.  
 Mathematics thereby addresses Cell Communication, of which Mathematics is a form.  
 Mathematics can therefore be used to describe the social processes that form Humanity.

The social organisation of Humanity is based on the process of Cell Communication.  
 Therein Living Cells are able to molecules, electrons, photons and quanta.  
 Thereby cells can interact with quantum fields, radio fields, chemistry and physics.  
 Tetryonics describes the details of how thereby they form molecules and Matter.

#### SOCIAL COHERENCE

Social Coherence in humanity is based on the cosmic principles operating in Cells.  
 Changes in Social Coherence can be described by Mathematics; in two manners.  
 Mathematics is usually understood to describe reality (Realisation, Noun).  
 Mathematics however also is an expression of our realisation (verb).

Social Organisation is based on individuals forming relationships forming groups forming humanity.  
 This is the same dynamic as that of cells forming organs forming a body forming humanity.  
 It is based on (Quantum) Choice forming Decision forming Conviction forming behaviour.  
 This parallels the development (in stages) from Baby to Child to Adolescent to Adult.

Social Organisation can NOT be described by the Mathematics of Reality (Realisation, noun).  
 Social Organisation requires the use of Mathematics to reflect our realisation (verb).  
 This includes the requirement to explicitly formulate the use of freedom of Choice.  
 That is to be done by specifying the involvement of the scientist in the Observation.

Our Involvement is implied by the form of Mathematics used in the formulation.  
 The Values represent our Values; the Variables reflect our (change of) perspective.  
 The Operators correspond with the decisions we (do not) make; in our conditions.  
 The Equation Sign represents our Freedom of Choice; in our unique standpoint.

#### SOCIAL INTEGRATION

Social Relationships, and the lack thereof, is based on the operation of Freedom of Choice.  
 “Curing Criminality” describes that crime, often is a ‘Fall-back scenario’; a ‘regression’.

In our bodily and mental organisation we have to compensate for lack of integration.  
The resulting social mis-match is ‘the same’ as is seen in the body/mind as a “Disease”.

What we experience in our body/mind, we can describe in the form of mathematics.  
The Mathematical description will however only be applicable if it describes our mind.  
Because only then can we see how ‘internal compensation’ ‘carries out’ ‘to outside’.  
The correction/compensation process is equivalent to that of a mathematical operation.

|          |            |              |                |
|----------|------------|--------------|----------------|
| Healthy  | Ill        | Sick         | Dead           |
| Health   | Adaptation | Compensation | Decompensation |
| Choice   | Decision   | Conviction   | Behaviour      |
| Equation | Operation  | Variables    | Values         |

Disease in general is the invasion of environmental conditions into the body/mind.  
Crime is in general an invasion of the conditioning of the individual on others.  
Mathematics is a process of changing the balance/conditioning ‘in the equation’.  
Therefore Mathematics can be(come) a fundamental tool to understand/restore health.

## CONCLUSION

Mathematics operates “Equations” to perform “Operations” with “Variables” for “Values”.  
It thereby ‘exercises’ the Choice to make a Decision to uphold a Belief to form Behaviour.  
It thereby operates “Identity” to redefine “Relationship” in “Interaction” in “Environment”.  
But this is only the case if mathematics is seen to represent Realisation Verb, not Noun.

|               |                             |                    |                |
|---------------|-----------------------------|--------------------|----------------|
| 0D            | 1D                          | 2D                 | 3D             |
| Point         | Line                        | Plane              | Volume         |
| Individual    | Relationship                | Group              | Humanity       |
| Baby          | Child                       | Adolescent         | Adult          |
| Cell          | Organ                       | Body               | Humanity       |
| Health        | Adaptation                  | Compensation       | Decompensation |
| Creation      | Realisation (verb)          | Realisation (noun) | Reality        |
| Vote          | Money                       | Law                | Life           |
| Choice        | Decision                    | Belief             | Behaviour      |
| Equation Sign | Operation                   | Variables          | Values         |
| Equation      | Integration/Differentiation | Variation          | Determination  |

## REFERENCES

<http://curing.criminality.scienceoflife.nl>  
<http://meta-mathematics.scienceoflife.nl>