

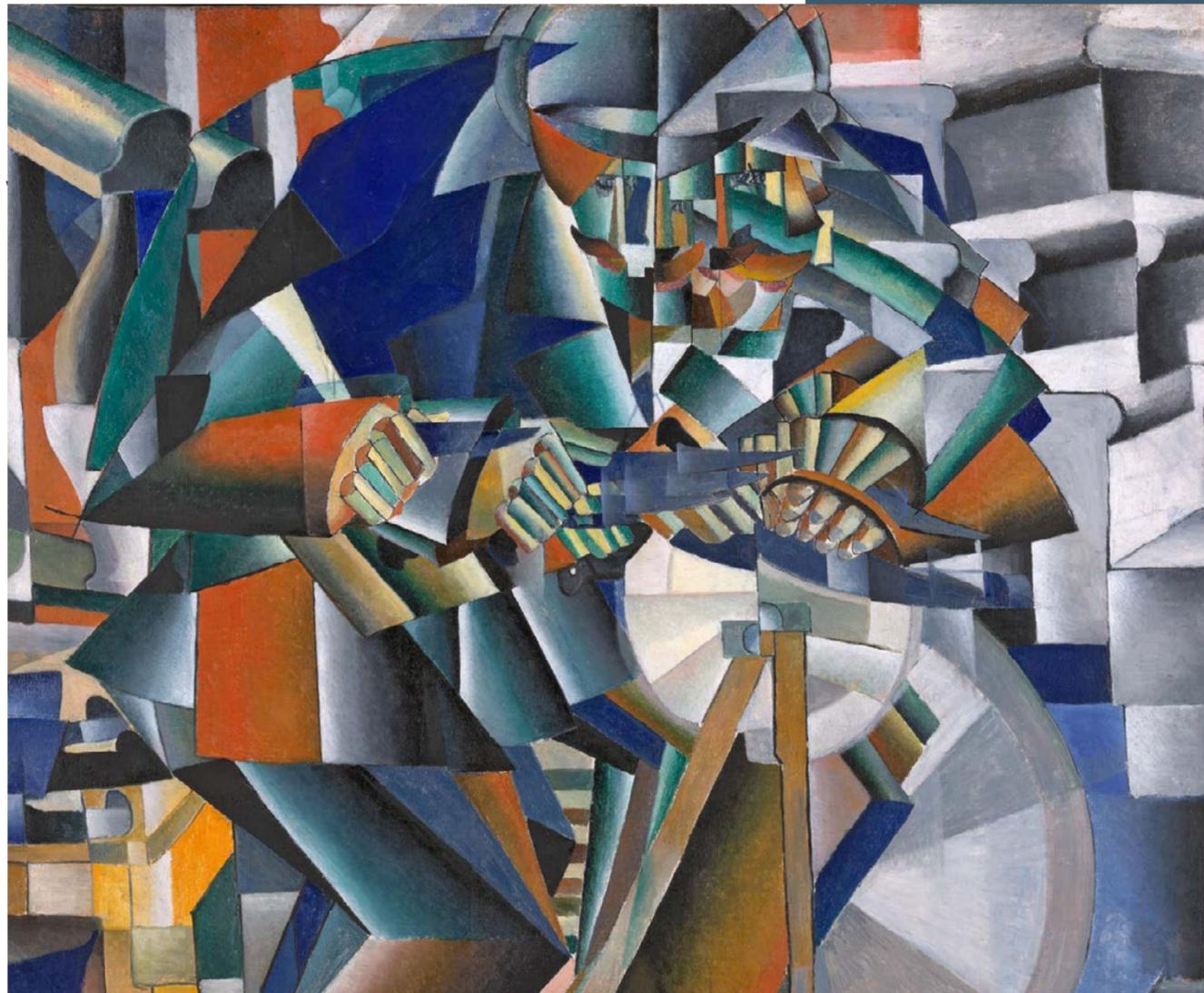
SPECIAL ISSUE 73 MAY 21

SHAPE JOURNAL

**HOLIST  
SCIENCE III:**

**THE  
HOLISTIC  
ENGINES**

**JIM SCHOFIELD**



The Knifegrinder (1912-13)  
Kazimir Malevich

## The Holistic Engines

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### Art Director's note:

The importance of Abstraction to Holism and Dialectics, has been reflected visually, in the series thus far, through the use of Russian Constructivism as illustration, and the development of those ideas in proto graphic design and art from the Bauhaus.

However, what is missing from this influential Abstract art, is similar to what is missing from the Pluralist Abstraction that Schofield criticises in his Philosophy of Science. Both of these forms of Abstraction lack any real dynamic content, or the ability to represent change and evolution as we see it occurring in the Natural World. For this reason these Abstractions, while sometimes revealing, and formally very satisfying, can sometimes seem lifeless and cold, or overly simplifying.

For this issue, which looks specifically at how Holistic Dialectics could address the real engines of change, we have looked to another, more dynamic form of Abstraction, and a key precursor to Constructivism, for many of the illustrations: [Russian Futurism](#). Unlike Italian Futurism, which was closely related to Fascism at the time, the Russian version was primarily influenced by Cubism and many of these Futurists went on to become part of the Bolshevik Revolutionary movement.



Tatlin at Work

El Lissitzky

## Round and Round the Garden

### Like a Teddy Bear

by

**Jim Schofield**

In the last few weeks, the on-going Crisis caused by the Division of The Electric Universe Group from the Mainstream Physics Stance, has been significantly further complicated by recent developments within that EU camp, which have started to question some of the main tenets of their own set of assumptions, while simultaneously still totally continuing to rely upon the exact same wholly Pluralist underlying Stance.

This split is actually very old, and the pragmatic aspect of their technical orientation was one wholly-based upon extensive experience, in making, fixing, in achieving certain objectives, without ever "Knowing Why": for the producers of such Knowledge had NO General Understanding (or Theory), so they could never explain their Pragmatic findings.

But, they *did* learn something crucial about the absolutely necessary Conditions for their findings, to ensure that they would work Every Single Time! They discovered that they had to prevent many of the conditions from varying, as the ONLY way of ensuring the constancy of their results.

This Principle was not easily dispensed-with, as it had served Mankind very well indeed for many millennia.

And as all three stances now involved subscribe, as they always had done, to this Plurality, this simultaneously makes any integrating-resolution impossible to transcend, without presenting ever-more Contradictions.

So, let us fully define these three stances, before, thereafter, pointing out all of these added Contradictions!

The initial Basic Pluralist Stance, common to all three, was involved in the necessary cultivating of all Experimental Investigations, ensuring that everything possible within that artificial arrangement would conform, so relations could be extracted - thereby dealing exclusively with Forms alone, and hence consequentially ensuring that all possible extracted relations would only be between Forms, and hence be entirely-and-permanently Fixed! This, Pluralist Requirement, not only distorted what Form could be extracted, but also limited what could be extracted to a Single Relation, and imposed only one such relation at a time when delivering the given results.

For example, in Cosmology, this Defining Relation was always taken to be Gravitation alone!

Now, the Electric Universe Group did NOT agree that the causes of Everything in the Universe were exclusively Gravitational. For several of the Engineers and Technicians involved had uncovered very powerful Electrical-and-Magnetic forces, which they saw as MORE important than Gravitation, as occurring in many crucial areas. While rejecting this basis of Physics they still clung, permanently, to all the assumptions of Plurality!

However, for much of Cosmology, effective Pluralist experiments seemed impossible, making much of the discipline highly speculative - nothing could be proven!

So, these two stances just grew ever further apart, with no intersections possible to allow the conclusions of each to be truly tested and solved.

The only really grounded approach available was the Pluralist one, as the restrictions to both investigate and use Pluralist Laws could be *made* to work: and also many of them on Earth were explicable (or maybe only describable). So, the Pluralist assumption that all Laws were wholly independent of one another, and merely ADDED together to give joint Effects, was taken to apply universally, so some of the EU Group began to proffer a Primarily Electric Interpretation of most of Cosmology! After all, the Mainstream Account of Reality was rapidly falling apart ever since Poincare and Mach's changes a century ago!

And the Pluralist simplifications were very-useable technologically, but were useless theoretically! When it came to totally unfettered situations in Reality-as-is, with multiple, different Laws, all acting simultaneously, and affecting one another, Plurality just couldn't deliver.

Now, the alternative solution of Holism was, in fact, as old as Plurality - but has been far less developed over the last two and half millenia. The Buddha, in India, accepted Law interactions as wholly natural, but did not formulate results as multiple separate Laws. Instead, The Buddha embedded the many aspects of a combination, like different currents in a river or ocean, as variables, and included instances of their possible effects, but he was unable to generalise these Changing Morsels of Truth, universally, as to how it worked. For very different significant contributions appeared to act at different times: NO Hard-and-Fast Laws could be formulated.

When no rules were available, you had to depend upon a wise and widely experienced philosopher to guide your decisions!

Now, after many millennia of effective Pragmatism - alongside the hard grind of basic survival, for the majority of the population - it was only the privileged sections of Society, that had the time and leisure for such an approach! The rest remained loyal to their reliable Pragmatism, that delivered most of their basic needs. But, the Ruling Elites believed they had found what they needed to Rule the World, and Academies of Philosophers appeared in the citadels of the Ruling Classes to educate their maturing offsprings.

And in Greece, in City States like Athens, that intellectual approach was revealed as a possible Generally Applicable Method, by the discovery of a powerful

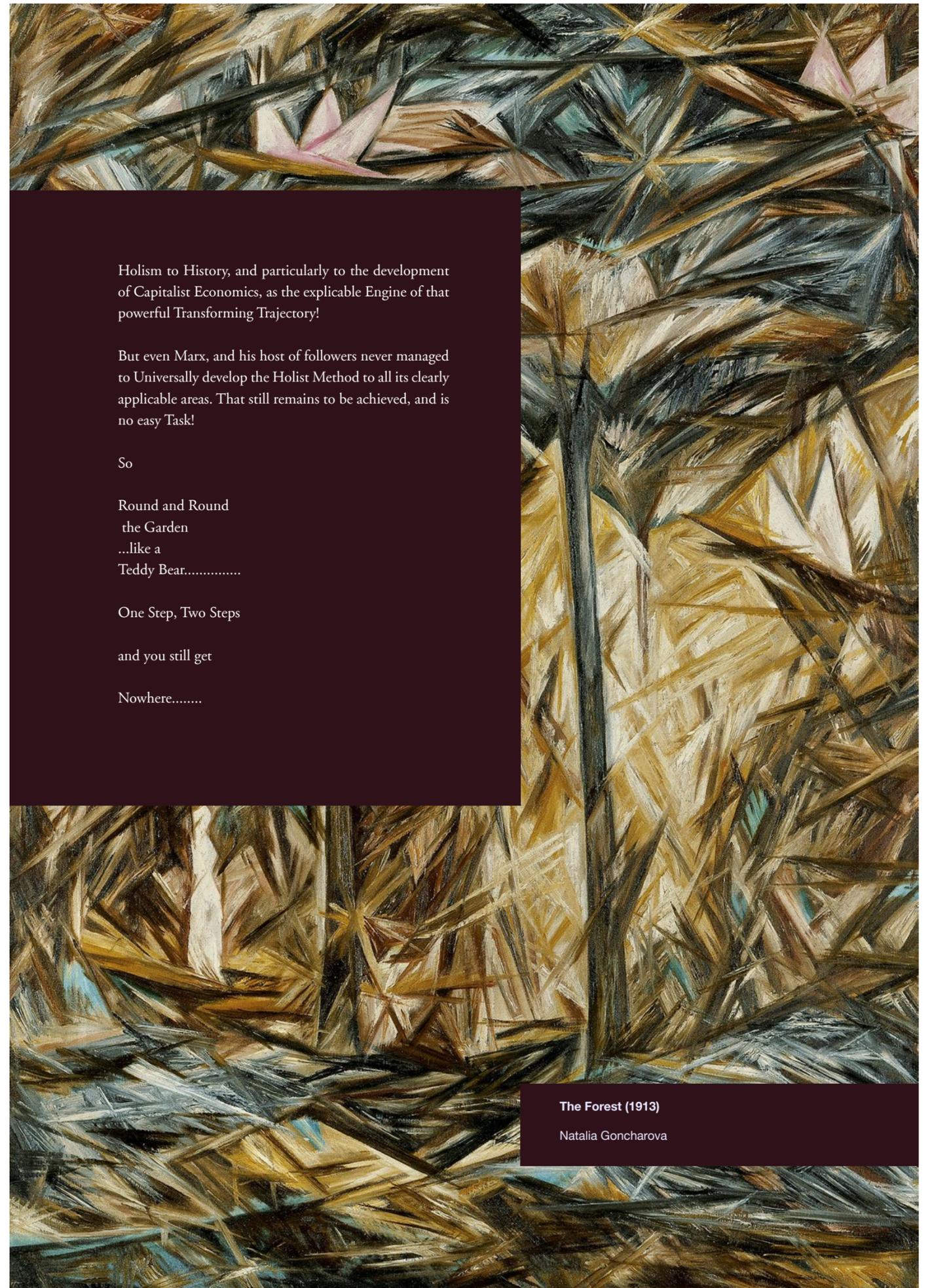
Logical Rationality within Mathematics! Now, this was only made possible by the invention of a New Kind of Relation between Abstractions. This first enabled the complete Rationalisation of Geometry -- delivering Euclidian Geometry as its first success. But, thereafter, it was extended to all of Mathematics, in the very first System of Logic! And, it was so brilliantly successful there, that it was immediately, yet illegitimately, extended to General Reasoning and even the emerging Sciences.

The die had been cast for the next two thousand years, which forced most Reasoning into an ever-larger number of mutually exclusive Specialisms (or even Disciplines), which were limited to scenarios, wholly within a set of situations wholly obeying (usually) a Mathematical Kind of Rationality with Fixed Pluralist Laws - thus making any meaningful Explanation of Qualitative Development totally impossible.

Of course, a series of clever workarounds and tricks were devised to include essential Qualitative Changes - but they were NEVER actually explained! Instead, triggers for including them were based upon past experience, but only included as a certain Key Parameter was shown to pass a given threshold value: but NO explanations as to "Why?" were ever possible.

Now, The Buddha's Holism could NEVER intervene, for though its generality was established, it was composed only of past experienced but unexplained correct instances: it had NO Generally Applicable Method! Indeed, in most natural situations, it was comprised of so many different simultaneous contributing factors, that no-one was able to see a Way Through - Holism looked like Chaos. Everything achieved scientifically in the last few millennia had only been possible via extensive Controls and a strict Pluralist Method. Literally no-one knew how to deal with unfettered Reality-as-is!

Zeno of Elea had revealed Contradictions in Plurality (his Paradoxes), but it took well over another two millennia to tackle these fundamental Contradictions, and reveal the "Dialectical" nature of Diametrical Opposites, and their initially perplexing roles within Reasoning. But the philosopher who turned the corner was Hegel - an Idealist - so he limited their roles to the mind, and could never address material Reality-as-is. It was his follower, Karl Marx, who realised that The Buddha's Holism had to be vastly deepened and extended to deal systematically with Reality-as-is, and proceeded to apply Dialectical



Holism to History, and particularly to the development of Capitalist Economics, as the explicable Engine of that powerful Transforming Trajectory!

But even Marx, and his host of followers never managed to Universally develop the Holist Method to all its clearly applicable areas. That still remains to be achieved, and is no easy Task!

So

Round and Round  
the Garden  
...like a  
Teddy Bear.....

One Step, Two Steps

and you still get

Nowhere.....

The Forest (1913)  
Natalia Goncharova



## The Holistic Engines

### Determining both Persistence and Change

The Nature of Reality-as-is is neither Permanently Fixed nor subject to Constantly Transforming Change.

After two and a half millennia of Fixed Pluralist Laws, which only deliver Complication rather than Real Qualitative Changes, the time for a major re-statement of what really happens, is both massively overdue, AND, by now, so urgent, that without a veritable Revolution in these Premises, and hence an accurate Definition of the Real Driving Forces of Holism, major global calamities will be wholly unavoidable.

This is not hyperbole.

In literally all spheres of Investigation and Explanation, the current Approach can only lead to ever more irresolvable Contradictions - because of the ways that they have been arrived at, they CAN NEVER be transcended! For, none of them are based directly upon Reality-as-is, but only upon artificially achieved and maintained situations, which even taken all-together present NO general or even developable solutions.

Now, of course, in spite of the equally ancient and opposite Approach of The Buddha, his Holist Alternative was far more difficult to conceive-of than the Profound Individual Contributions of that ancient philosopher. And, a well established Pragmatism throughout most Human Populations did enable the Farming and Cultivation of Fixed Ideas, within certain achievable and controllable subdivisions of that Reality, into producing, at least initially, extremely-handleable Local Artificial Situations.

But, though via these, desired outcomes were possible within such artificially-limited areas, they DID NOT mesh at all well with one another! They divided The World into incompatible localities, and hence generated innumerable contradictions between them.

Absolutely NO comprehensive General System was possible. Whole Disciplines, and within them, many incompatible Specialisms abounded, and were similarly compromised. And, even the most basic components of any resulting, and presumably revealing Experiment, actually needed experts from two different Specialisms to even "make these happen!"

And, in the last few decades, these experts have even drifted apart - in Physics we see this in the opposing Electric Universe Stance of many Technicians and Engineers from that discipline, as against the very different Theory-only "Scientists"! Currently, there is, nor can there be, any common ground between these mutually necessary, but increasingly opposing groups. And, situations are only worsening, with every new discovery, by either group.

So, clearly, the long-standing Pluralist "so-called solutions" will have to be replaced by a wholly New entirely Holist set of solutions, that must be capable of dealing very differently and effectively with Reality-as-it-really-is! And, this must start by including everything happening there, and then find out all that is simultaneously actually-going-on, without any modifying-and-controlling of situations in order to suppress any of the actual processes and consequences involved.

It will, of course, involve a true exposure of all of the Real Natural Processes, BUT, no longer, as Pluralist Simplifications: and this will most certainly require the Total Demise of the usual Single Event, Separate, Fixed and Independent Laws.

Instead, some means must be developed, of finding out how multiple, simultaneous and different Laws *change*-one-another over-time, causing them to settle into the everywhere-evident, Purely Temporary Stabilities, that we routinely mistake for fixed Laws of Nature. This will only occur in the actual situation of the same Laws both acting, but-also-changing to finally arrive at this Very Different Kind of Stability!

Indeed, recent researches have established that the old way of considering such Individual Laws is both incorrect and misleading, as Constant Repetitions actually cause an unavoidable Selective Elimination of the less common Laws to be successively replaced, on succeeding Cycles, by a finally relatively uniform set of the more dominant Laws. And, in addition, a similar kind of selection with Directly Opposite laws, enabling a more effective control of the remaining set, via similar moves towards the Opposite's equilisation, and hence, even their occasional individual Cancellations.

BUT NOTE:

The above Holist "Theory" is still most certainly inadequate, BUT, it is also a flawed consequence of a sound-and-important aspect of Karl Marx's successful "Trajectory of a Social Revolution", which has as its "in-between" basis, the fact that multiple simultaneously-acting factors, nevertheless, form very long-standing Temporary Balanced Stabilities in all the Non-Revolutionary Interludes occurring between The Revolutionary Transformations. And, it is in exactly how these "stabilities" are both created and maintained, that must be fully understood, in order to tackle the questions alluded to above.

Let us, therefore, try to define the problem!

As in all of Holism, we have to deal with many simultaneous (yet very different) processes, that somehow form Temporarily Balanced Sets - that usually do not affect the overall Stability of the System as a whole. Indeed, they MUST be both the original cause, as well as the consequent maintainer of that Stability.

And, contradictorily, they must also, in particularly rare circumstances, also turn into their Very Opposites, by forming a consequent General Collapse, if the whole System in a Revolution - is THEN to be followed, by the successful building of a Wholly New Overall System, to bring that Revolution to a conclusion!

Clearly, the Key to all this must be the case involved in the nature of all the Balanced Temporary Stabilities, that are crucial to things persisting, more-or-less-unchanging between Revolutions! And, that is by no means straightforward: for it depends, rather surprisingly, upon Diametrically Opposite Processes, which for both Zeno (in Antiquity) and Hegel (at the end of the eighteenth century), considered these as the most obviously involved factors in, the clearly evident Logical Contradictions, which they both encountered.

Indeed, for a very long period, anomalies caused in "Traditional Logic", had to be accommodated totally outside any Rationality, by means of a Major Bifurcation at an "if then" fork in the reasoning. But, Absolutely NO Cause was revealed, but, instead, at Switch from the current state, into its Opposite, it could be signalled by a given variable transcending a "known-by-experience" Threshold. No explanation was ever given!

But, though the Key area was identified, its understanding was wholly incomplete when applied to a multiplicity of simultaneous interacting processes. For, the Opposites would not be Fixed System States, but caused by actual Processes, acting simultaneously, usually with one or the other Opposite dominating. BUT, a crucial possibility occurs when they both acted *equally*: for then neither effect would result, and any consequent development requiring one or the other's output will both be terminated! They would cancel each other out and by so doing terminate both.

Now, if it isn't as yet clear what this means, in an ongoing, constantly repeated multiplicity of different processes, which could either precede or follow others - indeed, the System as a whole can be affected in a complex series of different ways. And, one of these would result in a Temporary Balanced Stability, while another could precipitate a termination of such a process and precipitate an overall Collapse!

Now, one feature, of these Temporary Stabilities, that must be revealed, is therefore their self-maintaining Nature!

For, any changes in one part, could, it seemed, also cause its wholesale collapse, but would, normally, be immediately-and-effectively *countered*, by simultaneously-caused Effects, that always return the Stability to overall Balance! Indeed, these were happening and being corrected for constantly.

Indeed, only a massive set of changes affecting many of the multiple processes simultaneously, would ever be able to bring about that sort of Collapse - and when it did occur, all the prior correctional responses would turn into their Opposites, and the Whole Wide System would be accelerated into oblivion!

Clearly, to understand such Effects, (in both Extremes), must also involve a detailed understanding of the Dynamics of Sequences of Linked, Consequent Processes in our Holist World.

And, in addition, the very different Dynamics of constantly repeated multiple, simultaneous Processes, particularly concerned with effects such as Selective Eliminations of the less likely processes, must also be fully understood too. For, the blinkers involved in millennia of Pluralist Thinking totally omits any such considerations.

We know from Marx's analysis of the Trajectory of a Revolution, what must result from such kinds of Dynamics: so we are given such rich, illustrative targets to attempt to explain - though it is certainly a wholly new area containing very few dedicated workers in the field, at the present time.

Indeed, rather than limiting the required areas of study, we should, at this stage, be doing the exact opposite, and initially attempting to compile a comprehensive List of all these necessarily Holist Areas of Development, as we have for millennia been limited, almost exclusively, to certainly partial, and, mostly, purely *Quantitative* means of understanding Anything!

For Fixed Laws can only SUM, whereas, surely, we need now to really address Development - involving the generation of the Entirely New.

Many years ago, I decided that considering the natural Chemical Processes occurring everywhere in innumerable mixes and circumstances, simply MUST have had within those possibilities the situations I was seeking. And I began to consider rich mixes of possibilities, and how they might develop! But it soon became clear that the commonest consequences in all my conceived of possibilities, turned out to do the very opposite, and reject the New, in favour of the Commonplace, all-the-time!

So clearly, the initiators of any surviving entirely new turns, must have involved rare-though-persisting conditions. No wonder Constancy was taken as The Norm!

In order to have any chance of revealing what these "rule-changing" circumstances might be, I will have to dedicate some considerable time to finding and describing not only these circumstances, but also the ways in which they were to act to Change the Usual Direction of Such Processes - at least for long enough to establish The New as continuing to be available.

What is now required, to proceed any further in the Definition of a Holist Approach to Science, is a thorough-going revelation of the most-general-interactions relating large simultaneous Collections of Processes - regarding even their continuing Existence as well as their future Evolution. For these differ tremendously as against the usually-considered effects, and instead positively-selecting or even selectively-eliminating the rare, as against the abundant processes acting with them.

The trajectory of Real Development, is NEVER entirely-"causally"-determined either, but, on the contrary, only made possible by unusually-persisting or surprisingly-maintaining situations, that give the wholly New, a Chance to both Survive and Effectively Compete!

Now, as this isn't so obvious, I will commence with the constant repetition of what is defined as produced by Single Event Laws. For that involves the rare Single happening of another Law, which is not only different, BUT ALSO unlikely to be repeated, as the required wherewithall for it to happen will be unlikely to easily come together. And, these conditions are made even more unlikely, if they are happening within a constantly-repeated Cycle of exactly the same materials and processes!

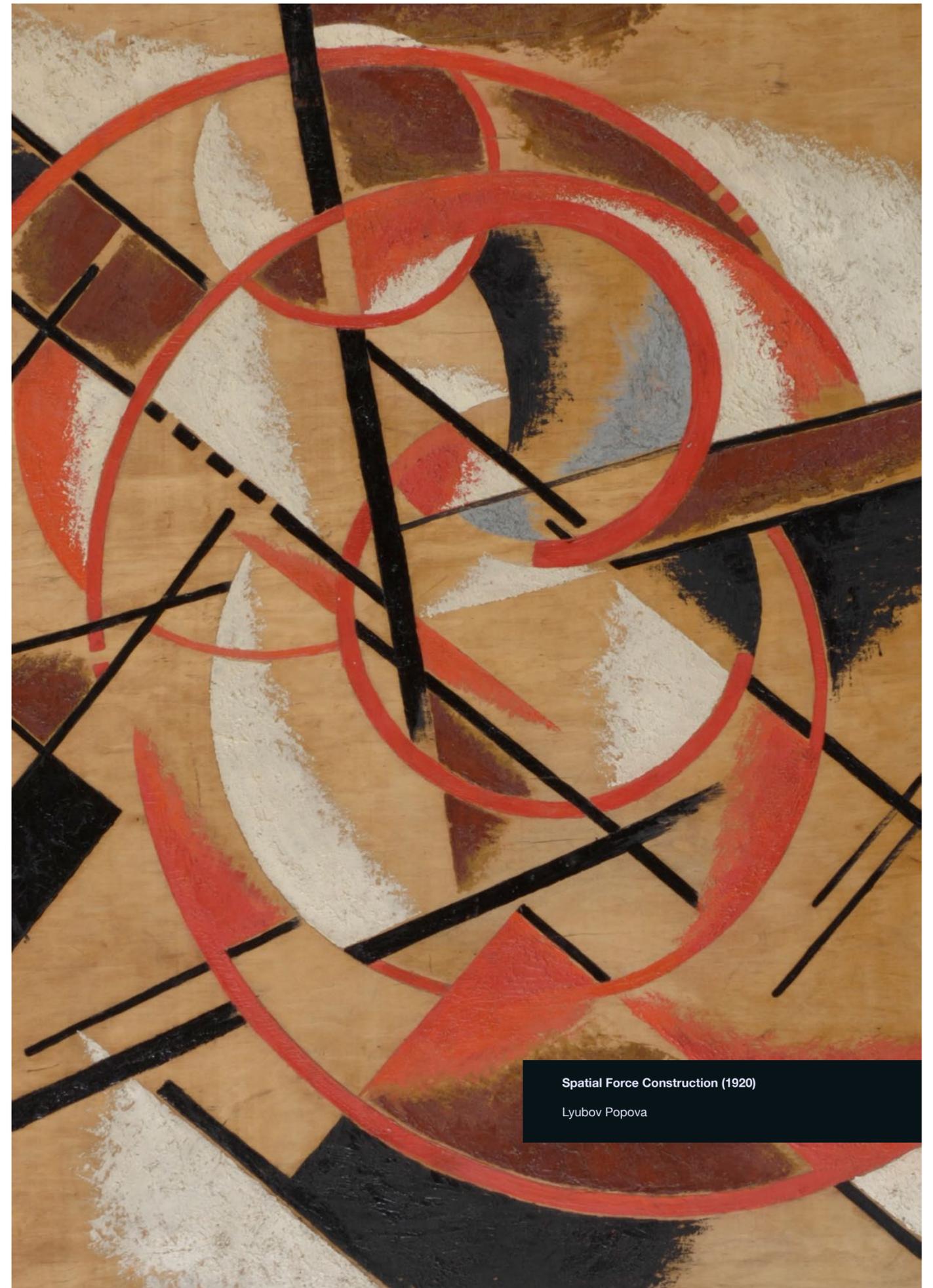
Notice that BOTH situations happen in Reality-as-is, but the Closed Cyclic version is highly likely to Selectively Eliminate the rare process as it will be swamped by the well-supplied and actively driven abundant processes! Indeed this feature of Cycles ALWAYS smoothes-out their contents, making them reliably uniform. Whereas situations, though containing such cycles, BUT also receiving resources, and disposing of products in a much

wider context, will always maintain a measure of the unpredictable!

The Living populations in tidally affected Rock Pools, for example, are much closer to that wider alternative. While if connected to more inaccessible pools only during High Tides, longer periods without disturbance, can assist in the establishment of rarer populations. Now, perhaps surprisingly, major interruptions, in Living Processes, can also be beneficial, as seeds from plants can survive in exceedingly non-conductive environments for very long periods of time, yet as soon as the right conditions recur, they will burst into Life once more.

Now, any assumption of a totally-unchanging Background Set of Conditions, would also be a major-if-understandable mistake, as the wider the Context being considered, the more will clearly Non Local Changes be likely to have a significant environmental Effect, and ultimately in consequence also affect Local Situations too. To deal with such cases will require the consideration of a Whole Hierarchy of relatively-independant levels, some of which can indeed be totally Revolutionary.

Early in the development of Life upon this Earth, the arrival of Plants, that used Sunlight to enable growth, and, in that process, also produced the remarkably-active waste-product of Oxygen, which ultimately constituted One Whole Fifth of the Natural Atmosphere of the Planet, and, for the very first time, had made possible the development of Animals, that alone could directly breathe-in the Natural Air to underpin all their internal Life Processes. Now, as Animals had never existed before that remarkable transformation of the Atmosphere, that Revolution indicates that such "for the first time ever"



**Spatial Force Construction (1920)**

Lyubov Popova

Emergences would have been impossible to predict.

Clearly, such developments simply must require an extension to Human Thinking, well beyond the strict causality of the already known, and into wholly new areas, which cannot be predicted beforehand. And though explanations will be possible, in retrospect, exactly what New Things will be delivered will be impossible to even guess before they happen! And, to even extend our Thinking soundly into these areas of True Emergence, we will have to regularly broaden what we consider to be relevant elements of Explanation.

For example, the now universally depended upon Mathematical Rationality currently used in literally all Reasoning, will have to be replaced with something better - related to, BUT far-exceeding current ideas of Dialectics!

In spite of Karl Marx's Contributions to a much sounder attempt to establish what he termed as Dialectical Materialism, he was personally unable to take his philosophical contributions much beyond (a certainly brilliant) Critique of Capitalist Economics, in *Das Kapital*. The essential thorough-going extension of that philosophical approach, into all The Sciences, was never achieved, and most efforts only got as far as an Idealist Version of Dialectics (closer to Hegel really), and without that crucial application to Science, the real Problems were never properly addressed - and what the perpetrators actually initiated may have been *called* Marxism, but actually did nothing to address what was still lacking in these attempts, and consequently effectively brought things to a halt: not only philosophically, but also politically too, and the post Second World War promise of a whole series of Revolutions all failed to materialise exactly as expected!

And, literally NO serious attempts were undertaken to complete the task that Marx had so brilliantly initiated!

And the reasons were and still are as-yet unappreciated, for, the only really viable Rationality, that was available throughout was, at best, an amalgam of Idealist Dialectics and the Mathematical Rationality delivered by the Principle of Plurality! So until Rationality was totally re-founded upon significant developments in Holism, particularly in The Sciences, the wherewithal to even begin to understand developing Reality, as it really is, would be impossible!

For, despite Marx's commitment to Dialectics, even that revolutionary transformation would only be limited to Idealist Rules, until it was soundly underpinned by a truly Holist Approach to Science!

It is the total reliance upon Stability, and upon artificially stabilised Contexts, effectively prohibiting any real-understanding of Actual Dynamic Changes, and, instead, replacing them all with unexplained transitions to Stable States! So, totally bereft of the kind of decisions required in interludes of Holistic Dynamical Changes, they were always and ever seen as "States achieved" rather than moments in an always qualitative changing context: so, consequent sequences of necessary actions, absolutely essential for maintaining significant qualitative changes, were never executed, and all action slipped over, inevitably, into unexpected and debilitating trajectories determined elsewhere.

Wow!

How on Earth were leaders like Lenin able to use Dialectical Materialism in a Revolution, do what was necessary, and WIN?

It has taken me 14 years of full-time research, and the writing of almost 1500 papers, covering both my specialist area of Physics, and a commitment to the Philosophic standpoint of Karl Marx, to, in the current year, have finally got to a place, where I am beginning to answer some of the key problems involved. I have written an extensive Critique on The Copenhagen Interpretation of Quantum Theory, and an extended series of papers also upon the Electric Universe alternative, and I am currently immersed in an attempt to establish both a Holist Approach to the Sciences, and a necessary re-invigorating extension of Marxism, or, more correctly Holistic Dialectical Materialism.

### III

The last two papers in this series switched primarily to Questions rather than Answers, as I was already running out of Key System Laws, where many Real Actions surely also reside, driving many of the Real Qualitative processors involved. So, in order to both investigate and thereby also enable me to qualitatively develop sufficiently, to enable me to begin to explain the actual Dynamics of Development. YET, towards the end of my last offering, I found what I now consider to be the required breakthrough, when it presented itself!

It finally occurred, within a careful analysis of the Role of Diametrical Opposites in True Dialectical Reasoning, instead of the various Idealist Forms developed out of that concept, as against its Concrete Significant Expressions, as used previously, by most now currently self-professed "Marxists(?)"

This profound realisation was triggered by the example of Slavoj Žižek, the current "Dialectical Marxist", who, in spite of his avid dedication to his chosen "Dialectical Method", never comes up with anything that will surmount the current impasses in the present Marxist Analyses-and-consequent-Practice. For, I quickly realised, that he too was an Idealist, and along with literally everyone else who calls themselves Marxists, have absolutely NO idea how such a method had to be solidly-linked to Real Qualitative Changes within Reality-as-is - both those now incidentally emerging, AND those that must instead be instituted-and-pursued!

And, though this may seem to be a contradiction, it is the case that without such solid and meaningful links to the Real World, even Dialectics, as a form of Abstraction, will always sink back into Idealism!

The early immediate precursors of Marxism did correctly identify Dialectics as a Key Step in this necessary process,

but the Real Features that had also to be revealed and understood, and thereafter developed in action, were precisely those determining Qualitative Change, only existing within yet Higher Systems of Reality-as-is.

And, the crucial area was always missed: because it, effectively, resided in two different-but-connected places - one in Reasoning, and the other in the Material World.

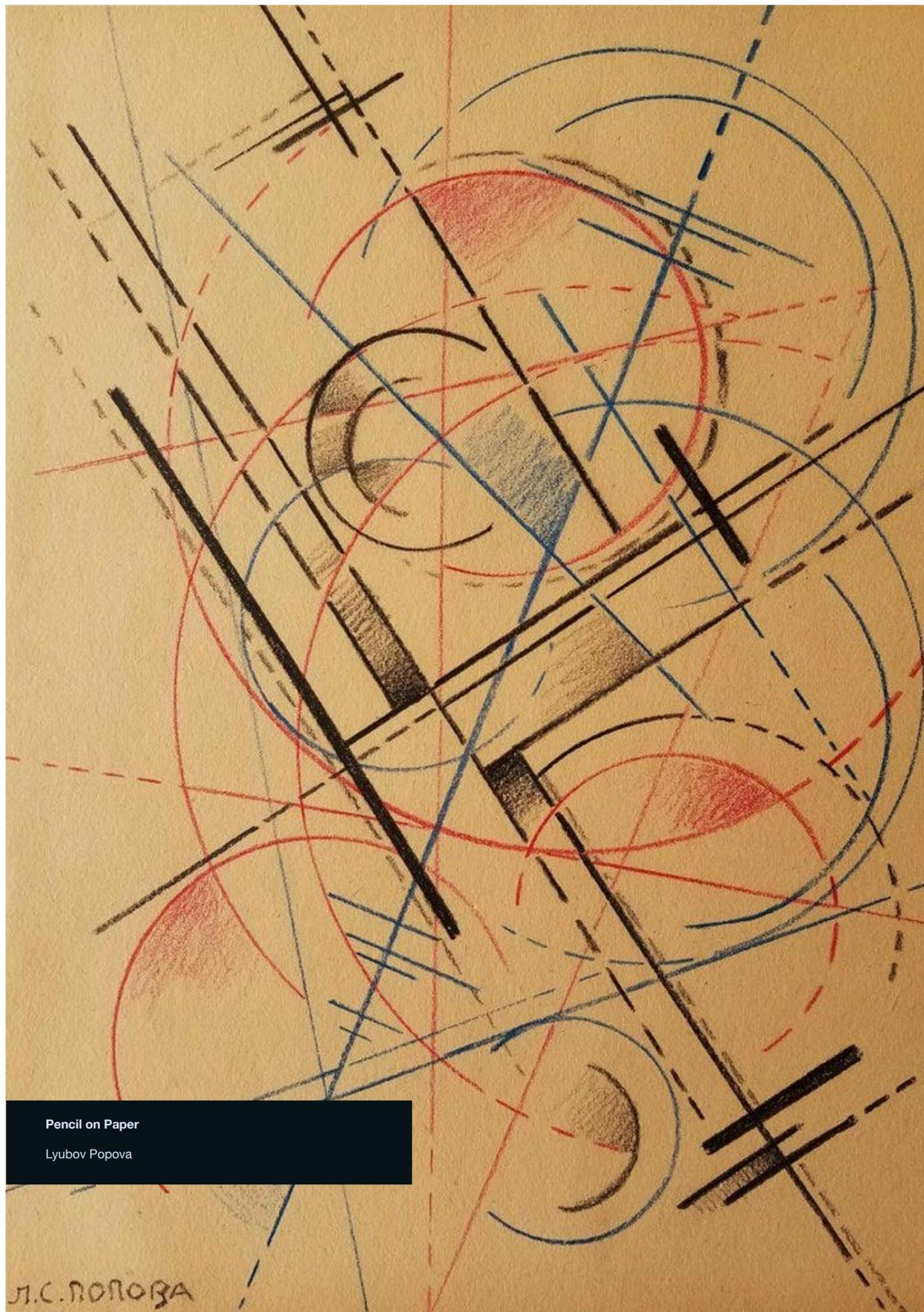
And, this link was never effectively revealed, so it was never used!

It occurs, all the time, rationally in how we deal with Diametric Opposites, which we see as a Purely Dichotomous Pair of alternatives, within Reasoning, but reflecting ONLY the two definitely sole primary possibilities, within Concrete Reality-as-is: BUT, that certainly isn't True!

You may get away with that assumption within all of Persisting-and-Maintained Stabilities, occurring within Reality, but NEVER can in interludes of Natural Qualitative Change.

For, it is the real processes in Reality-as-is, that are only then involved and underlie the now significantly-changed Logic... And they involve a Third Option! One, in which neither of the usual two can happen. And this has significant consequences both concretely, and in the Logic attempting to reflect that Reality. For, the Logic, as it is usually manipulated, delivers NO complete information, as to All that can happen next within such cases.

It is a Full Stop dynamically: nothing is rationally delivered to suggest what happens next in between those evident States.



Pencil on Paper

Lyubov Popova

Л.С. ПОПОВА

But, Concrete Reality is composed of a multiplicity of simultaneously-acting Processes, and these have further elements that follow one another in causal sequences, which, if all are known, will give known outcomes.

But, the Logical Full Stop of the “Dichotomous Pair” neither actually results with merely a total termination of the usual following processes, but in the Real World, such an outcome merely eliminates the usual resulting following processes - BUT here, despite the prior dominances of the two dichotomous options, also have totally terminated such causalities! AND, other previously swamped sub-dominant outcomes now deliver a new Dominant process:

A Qualitative Change occurs!

Now, in spite of these significant theoretical gains, the actual resulting causal situations will still be largely the old Dichotomous Pairs, for the third option cases are always very rare and momentary, so to hit those cases precisely in those rare cases is well-nigh impossible, without very long winded attempts to reveal all possibilities in as much detail as possible. Indeed they are so rare that some sort of trigger, set off by those instances should, if possible, set off an extensive and detailed dump of sample values of everything involved, in order to allow their careful subsequent study!

Marx was lucky, as the tempo of such situations in Social Revolutions, as with almost everything else in Human History, were such as to also allow Human Observations and Analysis. And, Michelet's brilliant account of the then recent French Revolution, allowed Marx to have access to a host of those complex, yet both revealable and analysable changes. For, all the changes in a Revolution, being due to Human actions, they were at a tempo that humans could indeed fairly easily record. And then later, in Marx's hands, as a detailed 25 year account, he was ultimately able to explain what had been going on, and Why!

So, Marx was not only able to reveal the Crucial Processes of Qualitative Change that occurred in a Revolution, but also, and significantly, use Revolutions as sound models for other Qualitative changes taking place in Non Human contexts and tempos. But, of course, many of these general “Transformations”, in Reality at large, will occur at tempos far outside those available to Humans studying Human History!

They could be about the Cosmos at one extreme, or about Sub Atomic Particles, at the other: and the usual kinds of processes involved, will often be at tempos far away from those which Marx addressed within History. And also, they will involve processes at very different sizes and tempos, which Mankind at its normal rate of experiencing such things, is unlikely to be in a position to analyse them directly! And, in addition to these factors, there is also the Cumulative Effects produced within what appear to be constantly repeated, “identical” processes: because, in fact, they DO NOT necessarily remain exactly the same throughout their persistence - even when the containing-circumstances appear to be totally unchanging! For, the mounting evidence is gradually appearing that such processes “clean up” or “regularise” both their Contents, AS WELL AS their Contexts.

And, in the case of a “if-then” type re-directions, the usual two alternative outcomes can be added to, with the third option of “neither”, when the usual two cases recur with exactly the same number of each, and effectively Cancel Out both of their Effects completely!

These wholly new Effects, are only now becoming possible, with the new Systems approach, rather than merely getting overall conclusions, by just summing individual repeated Events! Populations of the same multiply-repeated Events, in varying situations, are never just the Sum of their individual contributions. And Overall Population Type Conclusions based solely upon summations of Single Fixed Individual Events, are not only inadequate for that purpose, but clearly useless in predicting the local changes, or even final Overall patterns either.

As should be becoming clear from this and other contributions, these fundamental questions are only recently beginning to be adequately addressed! And highlighting the inadequacies of our usual methods, in general Computer modelling, is actually full of multiple faults, and can, therefore, NEVER predict the wholly NEW via a strictly formal result! But, a detailed analysis that delivers various possible, joint contributory processes, could, and indeed does, deliver sufficient for overall-effects to be considered and decided upon by dedicated experts committed to investigating such situations - but NEVER via Computer Programs! I know this well, as many years ago, this was my main specialism.

## A Preliminary Review of Modern Holistic Law

The Primary Tenet of Modern, 21st Century Holism, is necessarily the Exact Opposite of the usually subscribed-to Pluralistic tenet. For, Plurality simplifies Reality-as-is, markedly, by making All Natural Laws Permanently Fixed. But, in absolutely all Real, naturally-occurring circumstances, they do, in fact, constantly change - in response to their varying Contexts! So, instead of a mere Jigsaw Puzzle of unchanging "Law-Pieces", in fact, all Laws affect one and potentially modify one another, at least to some extent. Indeed, if a situation existed with only a single-solitary Law present, ONLY THEN would it be fixed.

So, Early Man attempted to achieve such circumstances by using Dead Wood, and inert-but-hard-edged Flint, to attempt to achieve such circumstances via such materials! He also used both Fire and crude weapons to kill wild animals for both food and naturally-produced clothing. So, such conditions were often attempted to be achieved to ensure the separated, individual Family-Group's survival.

So, as the first approximations to such ideally-useable circumstances, these assumptions proved, at least adequate to ensure a kind of survival! But, any significant changes in these methods was very slow in coming; indeed, for many millennia, the techniques only advanced in how human beings "knapped" pieces of Flint, which improved only very slowly, over truly vast periods of time, mostly concentrated upon achieving an effective Cutting-Edge, or Penetrating Tip to their Hunting weapons.

So, unavoidably, over the centuries, advances were made, and the simplifying assumptions did infer that

the laws involved were indeed Naturally Fixed! Yet, contradictingly, the Whole Living World of People, Animals and Plants was clearly packed-full of Qualitative Change, yet for vast periods of time there were only explicable by omnipotent Gods and Supernatural Causes.

This whole Informing Story is available elsewhere by dedicated specialists in that Field, but my task has not only to explain why this severely truncated method was so long, and so widely established itself: but also had to, in addition, define a much better, and developable alternative, that correctly deals with Qualitative Change, and, thereby, profoundly explains the Evolution of Reality itself, along with that of Life, as its most important ingredient - as without such a means of explaining the Wholly New, NO System could ever be considered to be sufficient!

The problem arises because No Law can be Totally-Fixed, and independent of its surrounding Context: and this inevitably makes all such relations unavoidably-varying, due to a truly vast number of multiple-simultaneous other causes, that are also always present - and hence IMPOSSIBLE to formulate as Natural Laws, WITHOUT having to embed them all within some sort of Hierarchy of many relatively-independant layers of them, wherein a Law in one level could temporarily establish what usually appears to be Fixed within the controlled Level immediately below! And, consequently, ONLY an Integrated Hierarchical, Holistic System could possibly deliver such features. And, the essence of all such features is that though the actions are primarily at one Level, the Qualitative changes involved, are necessarily caused-to-happen at the next-level-up in the Hierarchy.



Woman with Pails (1912)

Kazimir Malevich

And NO discernably-attributable changes are ever evident within the level where all the apparent action wholly took place! And hence, within such a Pluralistic approach, occurring only within such a sole-and-single tightly controlled Level - that is existing entirely alone - and where any actual, qualitative changes are apparently NEVER causally-available.

Now, I am well aware that, as stated here, this appears impossible: but it has to be put within its historical forming context of the last two and a half millennia - that of totally straight-jacketed Pluralist Thinking, which since its Invention as part of the Intellectual Discipline we call Mathematics, was always immediately and-illegitimately extended to include all the then known Forms of Rationality, from General Reasoning to every one of the Sciences - and literally every other form of serious study.

All Forms of Reasoning were similarly stymied by this Paramount Error, so that all criticisms of the Holistic alternative are hammered into oblivion, using solely the seemingly-independent General Rationality (but actually an entirely Pluralist) "hammer". and hence wholly illegitimate!

Now, let us be quite clear: the adoption of Plurality by the Ancient Greeks, did, in fact, adequately cover all individual phenomena happening within their own required and artificially achieved Pluralist situations, and these were fairly easily achieved within Early Technologies, but the relations so-extracted-and-used were always limited to only such artificially constructed situations: they were NEVER ever true of Reality-as-is, so could also never be used in that real context, nor be manipulated along with other strictly Pluralist Laws to deliver the necessary Full-Set of Comprehensive relations that should alone constitute Real Science!

So, the version achieved by relating only Pluralist Laws (true only in their own individual and different artificial situations) could never be used in that way. For, what was produced, did not apply anywhere Real!

The absolutely crucial Qualitative Changes that were essential for Science were unavailable in Pluralist Technological Laws: so, every single Pluralist step employed, had to be used - each one only in its own-and-different situation.

NO relations between those Laws were therefore formally possible! Yet, that was how it was always attempted, using Algebraic manipulations within Mathematics.

Clearly, what is really required is to attempt all these processes within a semi-indepdant Hierrarchy of Levels - linked solely by the Qualitative Changes precipitated in the Level above, by actions occurring in the Level below it, which effectively modify the apparently pluralist laws acting there - communicated from the now-changed determining Level above.

Now, you can see why they did this! It actually worked in sequences of different technological situations - specially arranged for to deliver everything needed. But, as they were never about Reality-as-is, they could never deliver what would happen there naturally, and hence never produce *Science*, which, if it is to mean anything, simply MUST reflect Reality as it occurs.

So, the pronlem of an all-embracing Science, would have to effectively deal with the multifariousness of Reality-as-is! Now, this is proving to be no easy task, as Single Law Real situations do not exist, whereas they are the dependable norm in all Pluralist Science. So, what has to be revealed are *short-term* situations of relative stability, connected by Interludes of significant Qualitative Change, transitioning to new relatively stable situations, that in turn, will change into yet another Interlude of Changes. To achieve an effective trajectory through such a changeable basic situation, would be wholly impossible without a significant revelation of the many periods of Temporary Stabilities that will be involved.

So that must be our next purpose!

II

## Plurality arises from "principals that are exclusively about Form"

The extension of Holistic Law into coping comprehensively with Causal Qualitative Changes, will only be achieved by dividing all the Laws into A Fully-Containing Hierarchical System, in order to fully integrate Qualitative Changes, for the first time, into those Primary Laws, instead of wholly separately contained within an inconnected Explanatory Narrative - and to do it in a remarkably New Way.

For, as has already been made clear, earlier in this series of papers, that the usual method, for the last two and a half millennia, was achieved by, on the one hand, making all such Laws Permanently Fixed, which also separated-out all such Qualitative Changes as impossible to include, as the Pluralist Rationality involved had no means of including them - and marshalling them all into a very different Explanatory Narrative where the actual properties involved were quite differently used to explain such things.

The only allowable changes in Plurality were exclusively strictly Quantitative, so all Qualitative Changes were assumed to be directly due to excessive changes in Quantity, forcing the consequent amount beyond some previously established threshold value - while never explaining why this should have such an abnormal effect!

The Qualitative Change was therefore merely signalled by the passing of such a purely experience-established Threshold, but, consequently, NEVER establishing Why, and for What Reasons, it should be affected in that particular way.

Now, for hundred of year, several explanatory reasons, for such Qualitative Changes, had been formulated

into a Causal System of Explanations - but every one was a separate reason, and Thinkers desired an overall integrated System, linking all such Laws to a Common and Confirming Ground.

And, the Ancient Greeks, in their famed Intellectual Revolution, had decided that this Necessary Kind of Rationality, was the one they had just revealed - that concerning Mathematics.

And, as at that time there was Literally No Scientific Theory at all, they were governed entirely by the Pragmatic and Technological Knowlwdge that was profusely already available, quantitatively, revealed Mathematical Plurality! And which was entirely consistent with that: but also immediately extended this to cover all Reasoning - from that concerning Rational Argument, to all the Sciences and literally Everything Else!

Now, Mathematical Rationality cannot be anything other than Entirely Pluralistic - that is, consisting ONLY of unchanging and immutable rules, The Laws of Nature, which could never alone delive any real Qualitative Changes! For it arises out of principals that are exclusively about Form: so this is fine for Mathematics, but useless for dealing with Caused Qualitative Changes: which never appear in Forms-as-such!

Now, in talking about Ideas, or even Living Things, they both develop and change all of the time: they have NO limiting Rules that prohibit such things! So, Plurality is actually entirely illegitimate in dealing with things that change, quite naturally, due to discernable physical and other existing causes.



The Buddha, at roughly the same time as the Greek Intellectual Revolution, came up with the Direct Opposite to Plurality, which DID INDEED deal with Qualitative Change, which was later also called Holism, and he began to define how such things should be handled, as their caused variability wasn't always as clearly evident as was necessary to explain things further.

Now, such Reasoning was soon well established, and attempted to explain change in terms of the interacting properties of clearly-associated things, but such things are though quantifiable, are not overtly rationally-linked to exactly when, and at what values, changes will occur.

So, though estimates could be made, they were soon also often related to their Direct Opposites, so that whichever was bigger would predominate, but even then, it was at a relatively-determined-value, and not at an absolute one: clearly, limits in any given context would also be crucial in defining any Determining Law.

But, establishing exactly where the Threshold, for a change in Quality, should-be-positioned, wasn't easy: so, in classic pragmatist fashion, such a value was noted for a given common context, and used when appropriate, and if possible to thereby achieve a useable solution.

Clearly, as this Rationality was established throughout Science, it would soon become littered with such Consequent Explanatory Gaps: and it is easy to see why absolutely NO fully-coherent Science could exist under these disabilities, without its division into many diverse Specialisms, with different assumptions, that were more right-than-wrong in that Specialism's defined area. So, any study that had to move across many such Specialist Areas, had to treat them as unavoidably-separated Stepping Stones across a varying Reality!

So, the Real Millennial Problem, which must be solved to enable a Single Generally Applicable Approach, HAS to be the Comprehensive definition of Holism, including the removal of Specialisms, which have resulted from the General application of incorrect Plurality across all current Rationalities.

Now, important beginnings have been made - particularly by Marx, in History and Economics: BUT the as yet Unconquered Land has to be the Full Conquest of all The Sciences, which has certainly never been comprehensively attempted anywhere!

And, the key-to-this has to be in the Effective Generalisation of Holism, in a wholly New Way, to address the current Erroneous Concept of Natural Laws, and their Qualitative Changes and Development!

And, this undoubtedly involves a wholesale rescue from the current Universal Pluralist Approach, and hence Mathematical Rationality's determinations. For the real backbone in a Holistic Approach, resides in Quality-changing Laws, and *Why* they change in the ways that they do.

And, of course, this isn't going to be easy, as the simplifications that enabled all Plurality, must be wholly replaced by the complete determinations of all the quality changes, as in Holism.

And the primary Change has to be the dumping of Single Independant Laws - for, instead, a universal situation of multiple simultaneous Laws, that primarily interact to define all consequent overall effects.

Because, even at this early stage of Holist Theory, we are already aware of what are termed Temporary Stabilities - as self-maintaining long-term stable situations - which have been the excuse for Mankind's current mistaken idea of naturally Permanently Fixed Single Laws, but which are, in fact, *Systems* of multiple, simultaneously-acting, Holistic Laws, that can-and-do self-adjust over time, as remaining the same, in spite of aberrant small changes - doing it for surprisingly-long periods, but ultimately, at some point - in a veritable avalanche of all the involved sub-laws - collapsing to deliver what we term a Revolution!

Plurality - the basis of the vast majority of all Research - cannot explain Emergent events such as this - or indeed how anything new comes about at all.

As has already been mentioned elsewhere in this series, the Laws involved are NOT all at one all-embracing Level, but, in fact, clearly form into a General Hierarchy of multiple Levels, with ABSOLUTELY ALL Qualitative Changes, acting only as Changes in Inter-Level-Laws, in which Qualitative modifications, in the prior level Laws, are established within the defining Higher Level - immediately above the actually active Level. These are clearly abundant everywhere, and in all the Sciences, but a detailed account of these Levels still remains to be adequately addressed!

But clearly, there is an implicit “Top-Down” causality, which must have naturally arisen over its entire development History - though the Qualitative changes that gradually accrued possessed a measure of independence within its Natural Level, though external calamities or even internal avalanches of Change (Emergent Revolutions) could, and indeed did, cause major re-organisations!

Finally, and in a contradictory way, changes at the active Level could build up to enable previously unknown originations, and thus, could enable the addition of Wholly New Laws.

NOTE:

Research into the interacting Levels of Nature is paramount. Elsewhere, by this same theorist, there is a substantial body of work upon The Aether - NOT the Aether Theory of Maxwell’s time, but instead a currently undetectable Universal Substrate of Lepton particles, that fills all of observed Space, and implements the Propagation of Electromagnetic Radiation, via temporary containment within those individual currently undetectable Units - what we know as Photons.

Coupled with that prior work into Sub-Atomic Levels, is a demolishing and extended Criticism of the Pluralist Copenhagen Interpretation of Quantum Theory.

[Editor’s note: All of that research is available in this Journal.]

But, by far the most significant development in the Simultaneous Active Laws Structure, within natural situations, appears to be determined by the fact that all Laws are formulated, to usually be about Single Events concerning reactions between Single Entities, or even their smallest embodiments - the Atoms and Molecules.

But, that is almost never the case in Reality-as-is! Usually, all situations involve many different varieties of processes, but their reactions are always happening simultaneously, along with others, as well as with many of the very same kind as themselves. So, reactions never take place in isolation, but usually multiply, and simultaneously, across the whole population of all the entities involved.

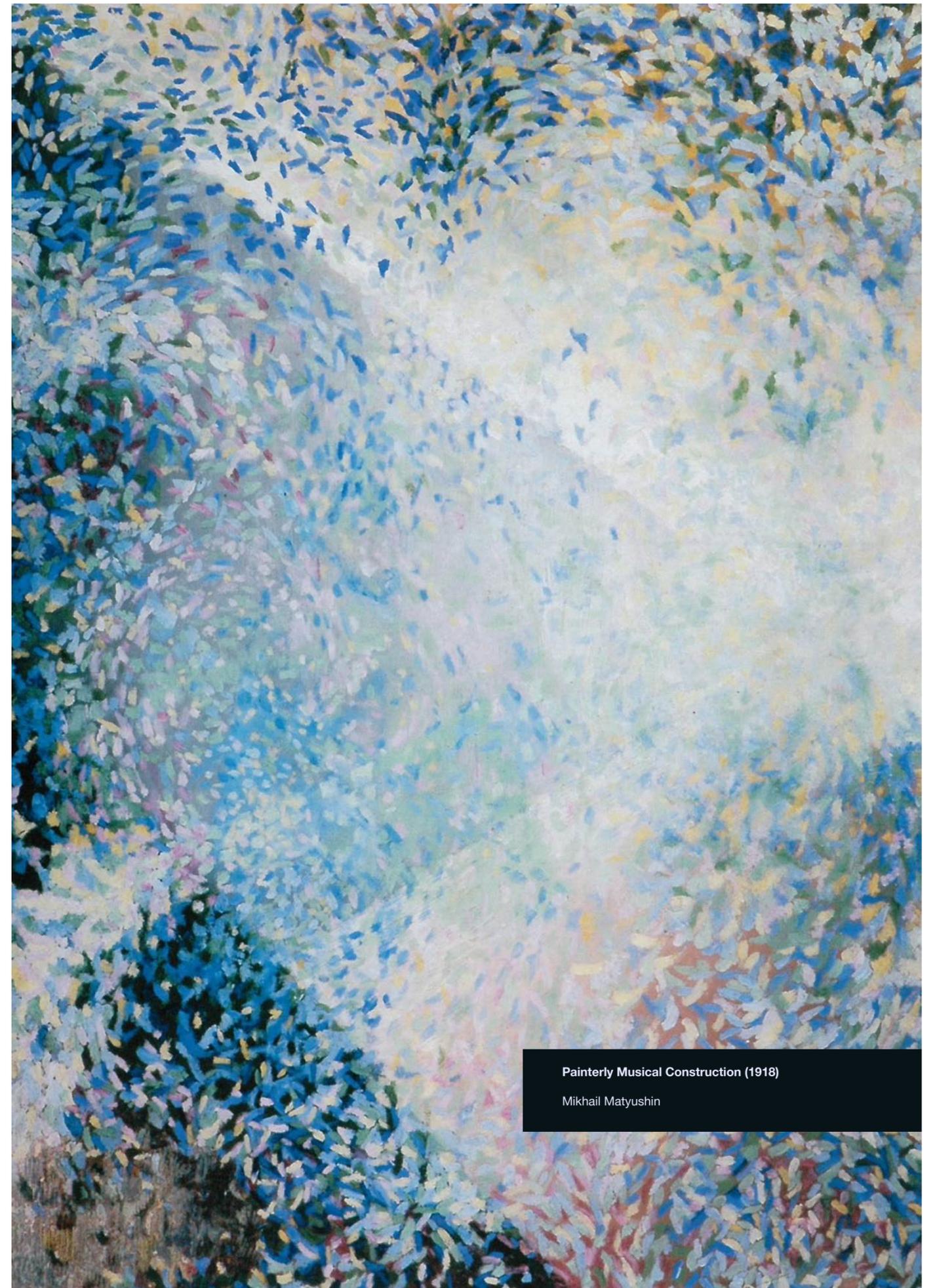
So, within such populations, the overall conditions would certainly have their effects, primarily upon the inevitable

changing composition of the overall population, AND, if those conditions are also changing cyclically too, in various ways, this will also affect what then ensues. Certainly, the most abundant possibilities will always find their necessary resources, and continue! But, it also seems likely, that vastly less abundant processes will not always be successful, and are therefore likely to be increasingly Selectively Eliminated over many cycles - so that, over an extended period, the population will be successively *homogenised*, and hence would simplify into only oscillations in the abundance of more than one dominant contribution.

Now, such changes are still being considered, but one very different process also seems to be involved: it concerns Diametrically-Opposite-Processes, which were first identified and used by Hegel in his definition of Dialectics! For, in a population that included such processes within the mix, three very different outcomes could be the result:

- First, could be the dominance of one!
- Second, the other could be dominant!
- Third, they could exactly cancel out!

Now, these sorts of macro-interactions, in creating and maintaining key balances, in what I have termed “Balanced Stabilities”, which undoubtedly do occur in Nature, and could be really significant in delivering to us an understanding of the Temporary Stabilities we routinely misunderstand as permanent or fixed properties of the Universe.



Painterly Musical Construction (1918)  
Mikhail Matyushin



Non-Objective Composition (1920)

Lyubov Popova

### III

The major problem in establishing a Comprehensive Holistic Approach in Science, has to be in the absolutely essential insertion of Qualitative Changes alongside, and even as the director of, all Quantitative relations. For, the currently dominant Pluralist Approach involves, as such, absolutely NO Qualitative Changes at all, for it is a Discipline exclusively concerning Abstract Forms.

The relations between such Forms, simply MUST be forever-fixed, in order to produce a reliable-and-repeatable Formal Rationality: for otherwise absolutely NO developable Structure could ever be created-and-used, as it certainly has to be, in order to deliver a useable and powerful tool!

Indeed, the Ancient Greeks were so enamoured of Plurality's evident power (as shown in the swift and profound development of Mathematics), that they immediately, and wholly illegitimately, applied these Principles to all other Rationalities too - even those where the forms and the properties involved were NOT forever-fixed, and required crucial mechanisms of caused, and occasionally totally unpredictable consequences, that could significantly change the Process in entirely New ways ,via entirely innovative Changes, that were wholly inadmissible within any strictly Pluralist Discipline.

Indeed, as they were originally conceived-of, Quantitative and Qualitative systems are entirely incompatible, and the Greeks (primarily, at that stage, involving only Philosophy) soon abandoned all Natural Qualitative Changes as only being externally caused, and hence developed all Internal Rationalities entirely without them!

But, all such simplifications in Human Thinking, despite any gains made by their initial adoption,

will always, ultimately, become damaging liabilities, as Mankind's Thinking developed, and increasingly encountered ever-more situations outwith the abilities of current conceptions, and demanding ever more telling innovations.

But also, this particular Contradiction was indeed the biggest yet, for it couldn't integrate the two systems in any way consistent with their currently conceived of natures! Indeed, it took a full two and a half thousand years, before Zeno of Elea's valid critiques of Plurality were accorded any value, within the Dialectics of the German Philosopher Hegel.

Indeed, even then, Hegel's contribution only made sense when dealing with Direct Opposites - as an Idealist, he was mainly concerned with Logical Arguments alone: he simply wasn't equipped to address Science, which had to try and Understand Material Reality.

And it was a Young Hegelian, Karl Maex, that first attempted something much wider, when he applied a development of Hegel's Dialectics to History: and particularly to Social Revolutions. And Marx was right in doing that! To attempt to transcend such mammoth contradictions was sure to involve Cataclysmic Changes, yet the tempo of changes within a Revolution occurred at a rate that Man could both tackle and attempt to understand and explain.

After centuries of a prior Economic System in a Society, a series of increasing Crises, finally fully-dismatled the Old, which had seemed to be permanent, and then also, at a similarly discernable tempo, had somehow created the Wholly New to replace it. And, the perfect example of this, The French Revolution, by overturning the prior Feudal Monarchy, had only very recently been completed,

and with a detailed account of the Whole Event by the Great French Historian Michelet was available, to aid a comprehensive Analysis.

Now Marx had a wholly New opportunity, to accurately both describe and explain the derailed trajectory of this, and many other such Events, wherein true Qualitative Changes were precipitating Revolutionary Changes in the Real World! It simply had to be addressed, to have any chance of overcoming the Formal Contradictions still embedded deeply into Human Thinking, by false and misleading Pluralist Conceptions of Reality, to be wholly replaced by a truly revolutionary transformation of what the real relation should be, to majorly affect Human Thinking from there on in!

For, what had always appeared to be Permanent and Immovable Stabilities, had been proved to be NO SUCH THING, and could, in exceptional circumstances totally demolish it, allowing the rapid development of the Wholly New!

What had to be done to deal with this, of course, was to construct a very different Cerebral Rationality, that would normally be self-perpetuating for often vast periods of time, but within what had previously seemed permanently FIXED, would then, instead, within wholly new on-going Revolutionary Circumstances actually precipitate a Qualitative Revolution!

### The Revolution

The task would have to differ fundamentally from all previous Rationalities, and instead Bow exclusively to Reality-as-it-is as the sole source-and-cause of all such now emerging Significant Changes! Clearly, starting from the same basis as previously, would never present any means of re-directing what will then happen, so all old assumptions of only the same outcome as before will SIMPLY NOT SUFFICE! This time a previously hidden or subdued process must now predominate.

And, for that to have been the case, the prior situation (as is always the case in Holism), must have involved several simultaneously-acting processes, of which, one always dominated. Yet, following the Revolution this has now been replaced by a different dominating process, immediately re-directing everything that happens next! And, subsequently, instead of a continuing single dominant process, the major change would have totally-

terminated that prior Stability, allowing a sequence of others to take over and permit a very different trajectory to thereafter ensue.

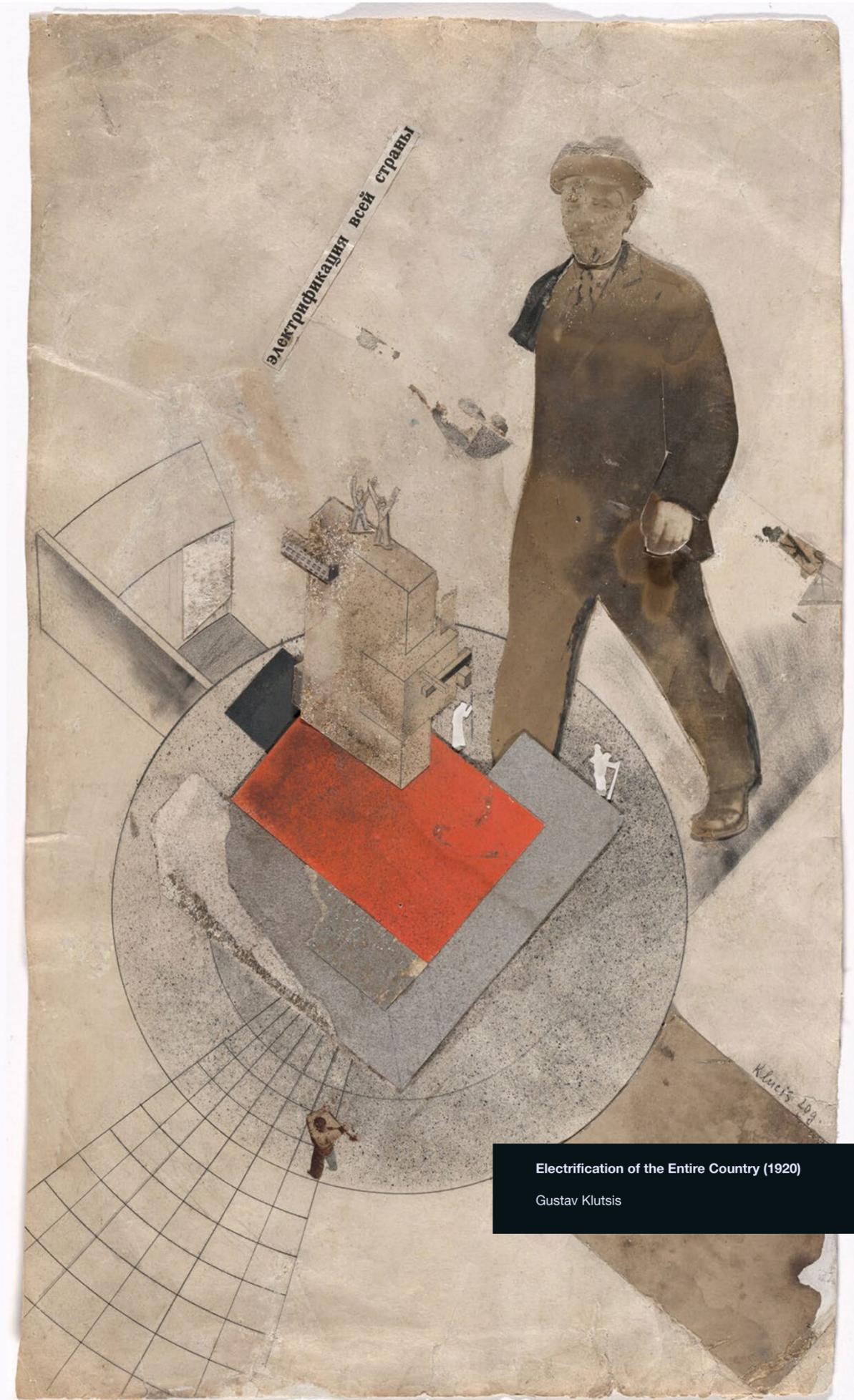
So, instead of the Pluralist assumption of a Single Sole Process, and a consequent necessary Stability, the assumption must instead always be of multiple simultaneous processes taking place, some of them seemingly invisible, and all of them usually dominated by just one process - in a somehow maintained situation, which via an initiating change actually terminates that dominance, to enable a whole cascade of further similar changes, involving other previously subdued processes to continue the Wholesale Collapse of the previously maintained System, into its absolutely Total Disolution!

Now at most tempos of such Major Changes, the steps involved in those cases are too fast or too slow for us to study them in detail (or even notice them!), but in Social Revolutions, wherein Man is the active agent, the tempo cannot but be right for Man himself to understand! It is therefore obvious, that any initial fruitful attempt, to understand such changes, would first become possible in the detailed study of History: and Marx's main area of study was in the Histories of Early Greek Civilisations.

So, it should come as no surprise that such an effort, especially when dealing with Revolutionary Events, in a Literary Age which was increasingly well documented, that Marx should clearly see what worked and what didn't, in the tumult of a Social Revolution!

For all the Elements of A Major Qualitative Change, were clearly present, from a seemingly Permanent Stability, via an increasingly violent-but-failed series of Crises, that would ultimately coalesce into a wholesale Collapse and a Nadir of Dissolution - followed, surprisingly, by a new series of ever more successful, yet failing Crises, that finally coalesced into the establishment of a successful Stability: the Revolution had been achieved!

Now, though this was indeed a major achievement: it did still involve only scenarios with the actions of Man as the primary Agents of Change. So, in one important way, the cure was very like the cause - as usually interpreted via the Ideas of Mankind! But everything else in the World is NOT primarily subject to Mankind as the Primary Agents of All Change. Far and away the most important Agents of both Change and Development has to be Material Reality itself - as studied in The Sciences.



Electrification of the Entire Country (1920)

Gustav Klutskis



Indeed Absolutely NONE of the above directly relates to The Sciences! From their outset with the Ancient Greeks, it was found to be impossible to explain anything, unless Reality was somehow “Held Still”!

Absolutely NO Theory of Qualitative Changes was conceived as possible. So they transferred the Totally Pluralist Rationality of Mathematics. not only to all the Sciences, but to all Logical Reasoning too.

Indeed, such a move excluded all the Sciences from accurately dealing with Reality-as-is, for drastically controlling the circumstances of any such Study converted it from a Science to a Technology.

Such restrictions made all extracted Laws both Permanently Fixed, and limited to the one single Context that had enabled its study and extraction.

And two further additions censored things into a Permanently distorted state.

The First, was the intimate linking to Mathematics, by taking standard forms from that discipline, and via sets of data from different experiments in the exact same context, fitting up that general Form to those sets of data, and by the Method of Simultaneous Equations, evaluating all the involved constants to achieve what was then considered to be a Fixed Physical Law! The Stamp of Pluralist Mathematics was wrongly woven into “Physical Law”.

And Second, substitutions between variables from different such Laws, were used to gradually build an “integrated Discipline of Laws!”

Once again Mathematics had been “built into” a falsely Pluralist Science.

There still remains a great deal to be addressed to detach the Sciences from Plurality, and establish them upon a Sound Holistic Footing - but this is a start.

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