



## Search for Non-Triviality in the Physical Laws Leads to Abstractness: a Brink of Reality

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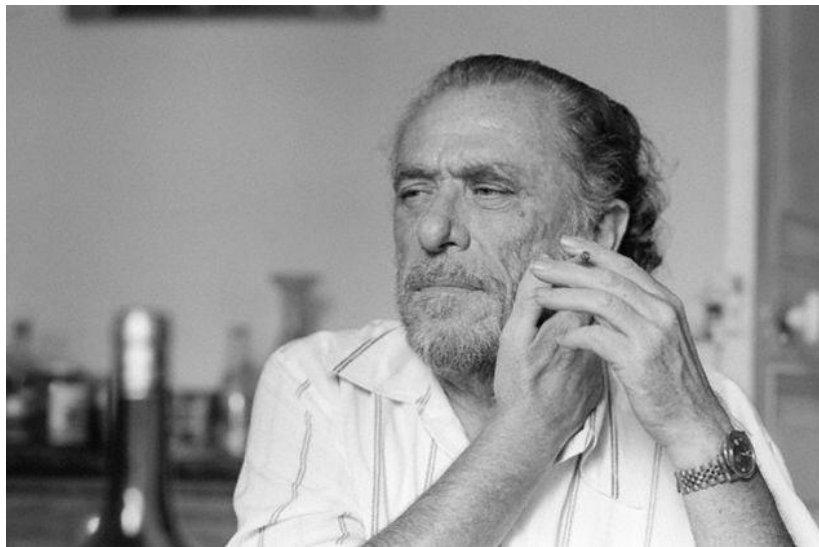
April 14, 2023

## Search for non-triviality in the physical laws leads to abstractness: A brink of reality

Deep Bhattacharjee<sup>^</sup>

**Abstract:** The pursuit of the non-trivial nature of physical laws leads to complicated mathematics and the formulations that indeed forced the hidden reality of nature as a reflective identity to humans in an abstract form of visualization. But if the search for extreme abstractness stopped beyond the known domain of physics: then there's what is left is an incomplete identity that will fail to provide a whole definition of nature as – what we can't see; we can only pursue through mathematics and the unseeable, unprovable things in mathematics leads to the conjecture which is a source of abstractness in the human-related formulation of the pursuit to know and explain the physical laws.

**Comment:** “People are strange: They are constantly angered by trivial things, but on a major matter like totally wasting their lives, they hardly seem to notice.” – Charles Bukowski



Henry Charles Bukowski (August 16, 1920 – March 9, 1994) was an American poet, novelist, and short story writer <sup>[Image Ref. 1]</sup>.

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<sup>^</sup>The author of this paper holds no conflict of interest as related to this paper

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## I. SEGREGATION OF PRINCIPLES

*"You can only see as far as you think." – Unknown*

- (1) - Philosophy teaches us to think beyond our conscious mind (means beyond the normal perceptions of deep inside the heart of nature).
- (2) - Mathematics teaches us to foresee things and make conjectures that would happen after you die (probably proved with validation after 100 to 300 years).
- (3) - Physics is nothing but (Philosophy + Mathematics).
- (4) - Human thinking goes too far that normal Theoreticians in Physics made theories that are now categorised as Meta-Physics where some scientists will say (Modern Mathematical Physics is nothing but a Mathematical Garbage with no Proof)<sup>[5,7,9]</sup>.
- (5) - As you can't change one's inner thought even for example the person whom you trust the most will start argue with you - Your only duty is (To respect their opinion but not to think about it and carry on your own work [ (to obey Point  (3) ] as there's more vote towards giving conjectures as if it's not given by foresee natural laws → Nothing can be discovered after some centuries when the technological improvement will be improvised extremely accurate but you'll not be there to see it)<sup>[4,8]</sup>.
- (6) - Everything that unexplainable now to you which is a (X - variable) as there's no proof will glorify with colours where (X - will stand for a constant) after a century or more!
- (X) Let the interpretation of (X) be rather a mathematical affine parameter<sup>[6]</sup>!

## II. THE ASPECTS OF NON-TRIVIALITY

*"There is a charm about the forbidden that makes it unspeakably desirable." – Mark Twain*

There's a huge difference between trivial and non-trivial pursuits of nature that all mathematicians have encountered and endangered their whole life for the sake of knowing that. But why does this

difference bother us so much that only we mathematicians or mathematical physicists have taken afar the fundamental domain of mathematical physics forced into metaphysics? Is this a notion of our intolerance or lack of patience?

If one should ever realize the mesmerizing beauty of nature, then the designs of physical laws governing the geometric architecture of nature in algebraic expressions which is nothing but the algebraic and Geometric topology then one can see the exact wrong that we are doing inside the paradoxical domain of the conjectures where the wrong (that we or others might think of) can become terribly and shockingly right (in far future)<sup>[5,9]</sup>.

Thus, the trivial is what we can see between the MACRO and MICRO SCALES. And the Non-trivial is the scales of both MACRO & MICRO (But they are different and always distinguished by a cut). What we want to capture is to take MICRO and then mix it with MACRO else all our theories in both (THEORETICAL and MATHEMATICAL) Physics go wrong and wrong and wrong<sup>[2-4,6-8]</sup>!

Thus, if one remains in the domain that is in between MACRO and MICRO then one can't be able to decide and disciplined the laws of nature in the most important and formulated formalisms.

That is what - if we stop to mix both SCALES (we are nothing but primitive chimpanzees who are not aware of the STRONG and WEAK ANTHROPIC PRINCIPLE).

Thus, any VARIANCE in Scales is Trivial and waste to every mathematician and Theoreticians. But the above easy way is not for the proper symbolization of Nature.

Hence what we do is mix them up! We are at least trying since 1960s or sometimes like that! And still now we're failing to make a SCALE-INVARIANT Approach (as if one can make a non-trivial formulated theory with practical demonstration and validation then → HUMANS will no longer be HUMANS! They will be the OMNIPOTENT ALMIGHTY GOD who is a Scale-Invariant reality existing as a superposition of all SCALES of MACRO and MICRO like Erwin Schrödinger's Cat. Hence, we should all trust SAGAN-KARDASHEV SCALE<sup>[2-4]</sup>!

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