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TWO SHORT TEXTS ABOUT MATHEMATICS AND PHILOSOPHY

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ABSTRACT

In the philosophy of mathematics, formalism is the view that holds that statements of mathematics and logic can be considered to be statements about the consequences of the manipulation of strings (alphanumeric sequences of symbols, usually as equations) using established manipulation rules.

In Platonism, the truth-values of our mathematical assertions depend on facts involving Platonic entities that reside in a realm outside of space-time.

In the philosophy of mathematics, constructivism asserts that it is necessary to find (or "construct") a specific example of a mathematical object in order to prove that an example exists.

For Logicism, mathematics is an extension of logic, some or all of mathematics is reducible to logic, or some or all of mathematics may be modelled in logic.

KEYWORDS

“Adib Ben Jebara”.

INTRODUCTION

In the philosophy of mathematics, constructivism asserts that it is necessary to find (or "construct") a

specific example of a mathematical object in order to prove that an example exists.



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MAIN TEXT

As a Platonist, I wrote : In : Mathematics: A philosophical approach to Fermat Last Theorem

[https://www.ashese.co.uk/ajps-v3-issue-2/about-](https://www.ashese.co.uk/ajps-v3-issue-2/about-elementary-particles-of-physics)

[elementary-particles-of-physics](https://www.ashese.co.uk/ajps-v3-issue-2/about-elementary-particles-of-physics) The equation with infinite products $zzz...z...=xx...x...+yy...y...$ with $z>y$ has no solution in the universe where only the restricted axiom $CC(2 \text{ through } x)$ is true. It is because otherwise the infinite products $xx...x...$ and $yy...y...$ exist but not $zzz...z...$ and we cannot have a side of the equation existing and the other not.

And I added in another publication that Desargues wrote about the infinite in geometry in the 17th century in France.

And in Logic Colloquium 2004 in Italy, I wrote :

For the continuum hypothesis Here is a tentative axiom from me to try to prove it.

Axiom : An infinite subset of the power set of N has a bijection either with a countable union of (pair wise disjoint) sets of n elements or with a countable Cartesian products of (pair wise disjoint) sets of n elements.

Mr Andreas Blass proved that this axiom is equivalent to the continuum hypothesis.

CONCLUSION

Each philosophy makes some one using it good at some of the tasks.

Formalism makes some one good at combining properties.

Platonism makes some one good at solving problems.

Logicism makes some one good at checking every thing. Constructivism makes some one good at focusing on things very real.

However, capitalism brought extreme specialization and some people are not using any philosophy of mathematics.

Short communication about the mathematical sky In the non-physical sky, there is the sky of Ideas or Forms of Plato and beside the sky of Ideas there is the sky of spiritual energies and beside the sky of spiritual energies there is the mathematical sky.

One question is are spiritual enegies destroyed by the Big Crunch of the universe ?

But the important question is : are all the thoughts registered as mathematical waves in the mathematical sky ?



Some thoughts may seem not important and turn out to be important.

So, maybe all thoughts should be registered.

People with outstanding intuition can read from the mathematical sky.

Reading from the mathematical sky may seem to be telepathy.

Nowadays people must learn some sobriety for the body for more activity of the mind.

There is not a philosophy quite new from the Western World because of extreme specialization since 60 years ago.

Beyond capitalism is the resolution of management problems by analysis of causes in total quality management.

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