

The Sun Clearly Goes Around the Earth
By Al Schneider

The professor said, "Today we are going to change your understanding of physics. Up to now you have worked with pictures of springs, balls moving through space with drawings of arrows representing force, direction, and speed. Today that ends. Today you will begin to use mathematics to represent reality."

That was the first day of class of the second semester of theoretical mechanics.

Now, some forty years later, I see that philosophy of behavior as the reason physics is stuck.

I say this for I have come to believe mathematics is a language much like English that serves to describe the universe around us but can describe things that are false or don't exist.

We are stuck because we lack understanding and make an assumption that mathematics describes reality.

This paper is to address: Undecidability, Uncomputability, and Unpredictability. This paper purports that we can make decisions, cannot compute outcomes but everything is predictable. That is:

Undecidability is false.

Uncomputability is true.

Unpredictability is false.

There are no paradoxes in reality. There are paradoxes in logic and mathematics.

Generally, mathematics is an approximation of reality.

Reality is quantized, mathematics is not.

This paper purports that the uncertainties in science are due to the lack of understanding of the reality around us. This paper further purports that the motion of every particle or that which makes up particles can be mathematically predicted. Ergo, Heisenberg Uncertainty indicates our lack of knowledge.

This author identifies the challenge put forth by this contest as perhaps the old question: is all pre determined or are we self determined? The answer presented here is yes and no.

Clearly, I believe all events can be mathematically predicted. At the same time I believe that such calculations are impossible due to the size of some machine to do so.

Even when observing the results of emergence we have extreme trouble connecting basic events with the resulting phenomena. Consider the difficulty observing little balls bouncing against each other and the walls of some container and deriving the laws of thermodynamics.

Here is the crux of this argument.

When a man processes data, the data is known and the logic of the man is known. With this information, a calculation (applying mathematics correctly) can be performed that would predict any decision the man might make. The theory here is that such a machine to do such a calculation cannot exist. From the perspective of the man, he is analyzing past data to make a decision, though predetermined, appears self determined. For all practical purposes, this is self determination.

In a sense the cosmos is a computer programmed to calculate what would happen by doing it.

To conclude I would like to salute those that have brought us to where we are now and those that will carry us forward. People like Grimaldi, Lavoisier, Avogadro, Plank, Einstein, deBroglie, Hooke, Newton, Feynman, and you.