

# Re: twins versus quanta collapse

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- *From:* "beda pietanza" <[beda-pietanza@xxxxxxxx](mailto:beda-pietanza@xxxxxxxx)>
  - *Date:* 23 Mar 2007 15:52:06 -0700
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N:dlzc D:aol T:com (dlzc) ha scritto:

Dear beda pietanza:

"beda pietanza" <[beda-pietanza@xxxxxxxx](mailto:beda-pietanza@xxxxxxxx)> wrote in message  
[news:1174654625.420283.288110@xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx](mailto:news:1174654625.420283.288110@xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx)

Tell me if the analogy holds:

Twins are generated by black eye fathers and green eyed mothers (they can be monozygotes or heterozygotes).

Let it be the "green eye" or the "black eye" our observable variable.

The twins A and B come out and are sealed, each one, in a closed box, we have to predict the color of the eyes of twin B by opening the box of twin A and look at the color of the twin A eyes: we don't know anything about the genetic laws and about the color of the eyes of the parents.

By statistically taking track of the outcomes we see a strong correlation between the color of the eye of twin A and twin B.

Of course the correlation is preexistent at our opening the twin box A nevertheless the prediction is only possible after we open the twin A box not before.

This is a clear case of hidden variable: the genetic and the parent eyes.

please comment and help me to swallow a indigest bite.

## Re: twins versus quanta collapse

You invoke a population to obtain your "strong correlation".  
You ignore the implication of homo- versus hetero-zygous when you assume "strong correlation". It will be strong for homozygous, less so for heterozygous.  
Prediction is possible by observing the parents, and no longer requires opening the box.

As I made it clear the genetic laws and the color of the eyes of parents are ignored by the experimenters, who are entitled (for each couple of twins) to only open the twin box A and try to predict the outcome of twin box B.

From the statistic of the generic twins population, the experimenters know that green eyed and black eyed twins are even 50% each.

(Twins can be identical (eyes correlation 100%) or different (eyes correlation none))

If there were no entanglement between the twins there would be no possibility to predict the outcome of B simply by looking at A.

Instead the experimenters are able to predict with an efficacy of 75% that twin B will have the same color of twin A, this kind of collapse of variability of the outcome of B is the analogy I am trying to make.

(The prediction would be 100% correct if we exclude the twins not identical) still of this tampering the experimenters must know nothing.

In this case the explanation lay on the hidden variables (the genetic laws and the parents eyes color) that the experimenters ignore.

Is not the opening of box A that makes the "collapse" of the outcome of box B but the correlation was there pre-existent from the beginning.

on this you are asked to comment.

You set up slits, you will get diffraction. You set up a photoelectric arrangement, you get particle behavior.

seems out of issue to me

Maybe the bite requires \*you\* to change to draw nourishment from it.

Re: twins versus quanta collapse

Change what ??

thanks,

best regards

beda pietanza

David A. Smith

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