

# Discourse on Scientific Method

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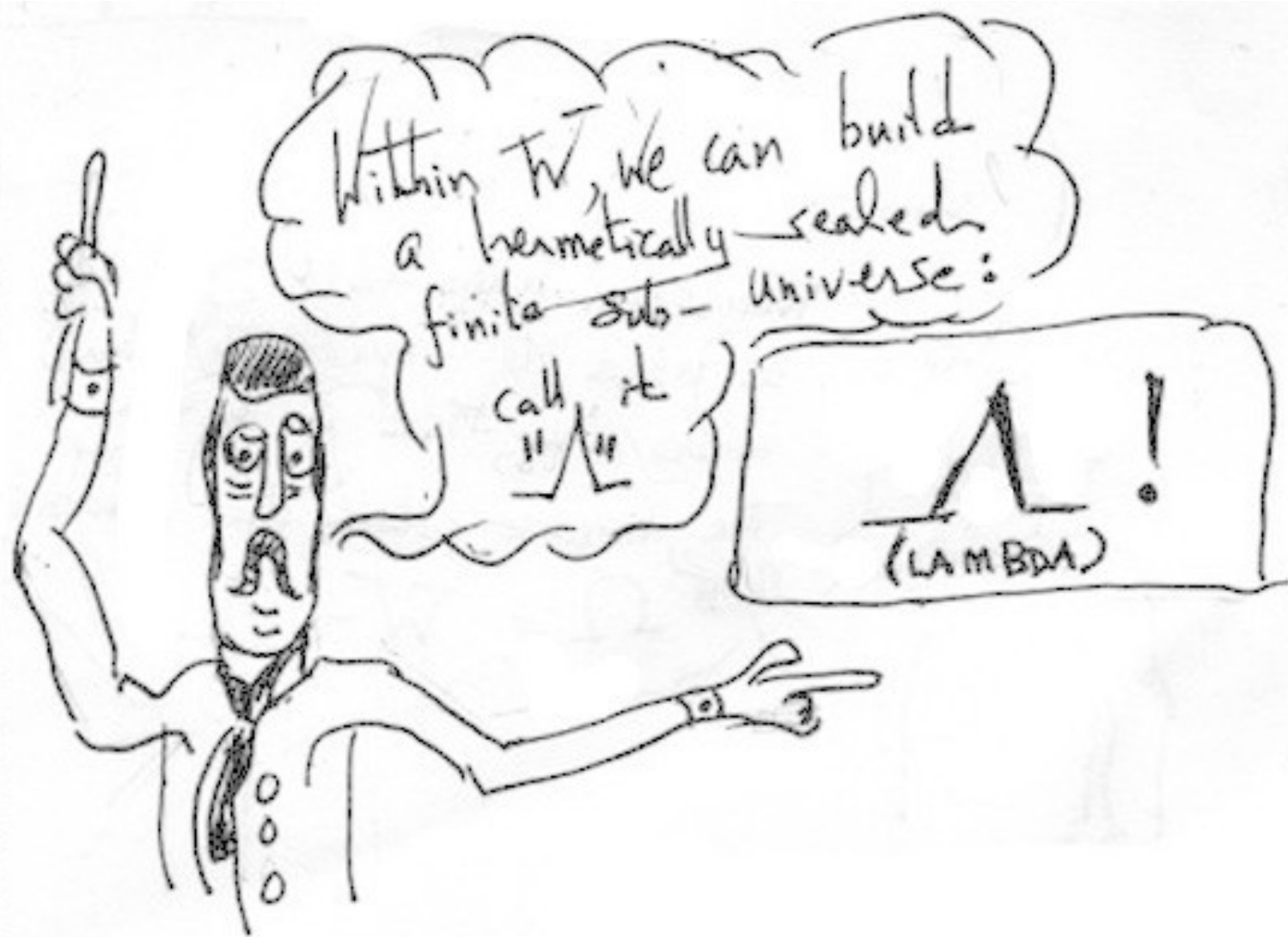
Cartoon Lectures - March 17<sup>th</sup>

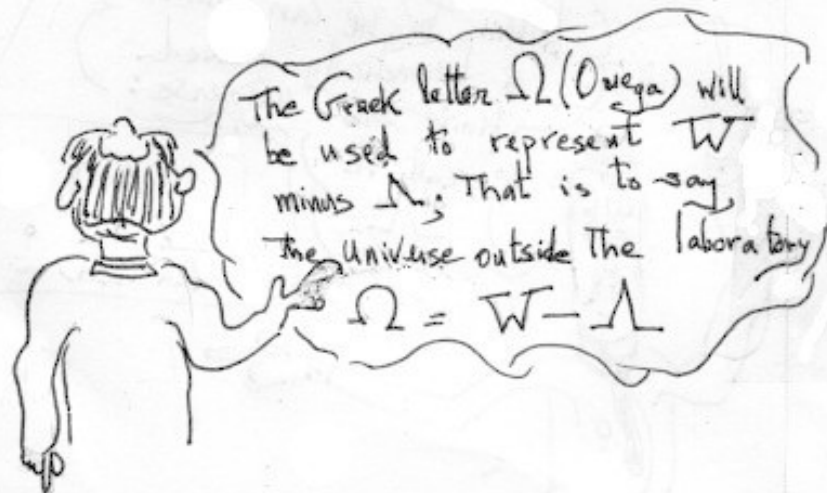




Let's say that TV is  
of indefinite size, large  
enough for  
our purposes



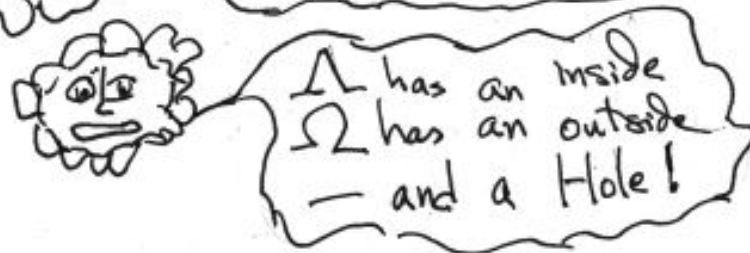


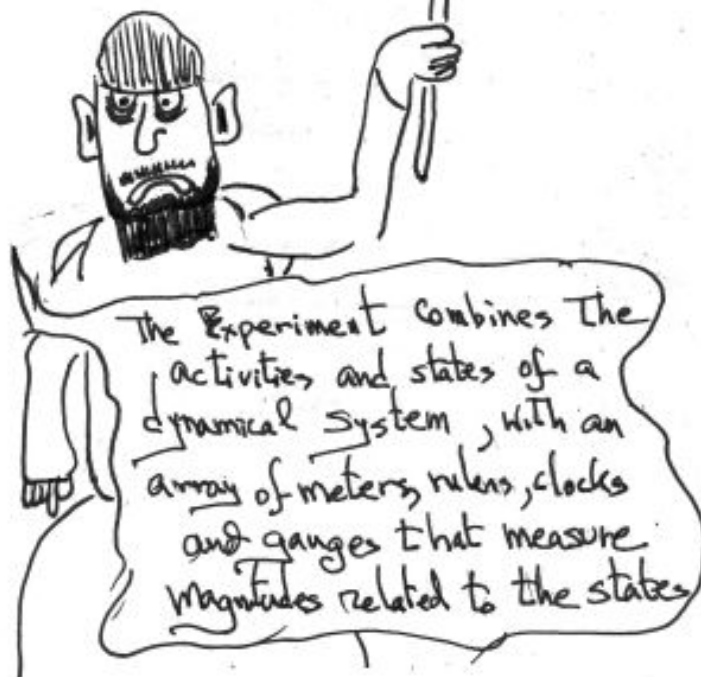
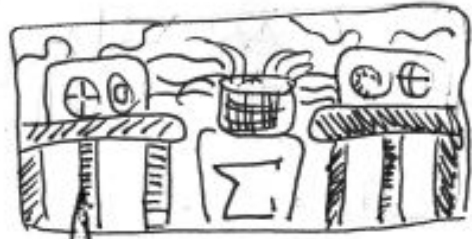














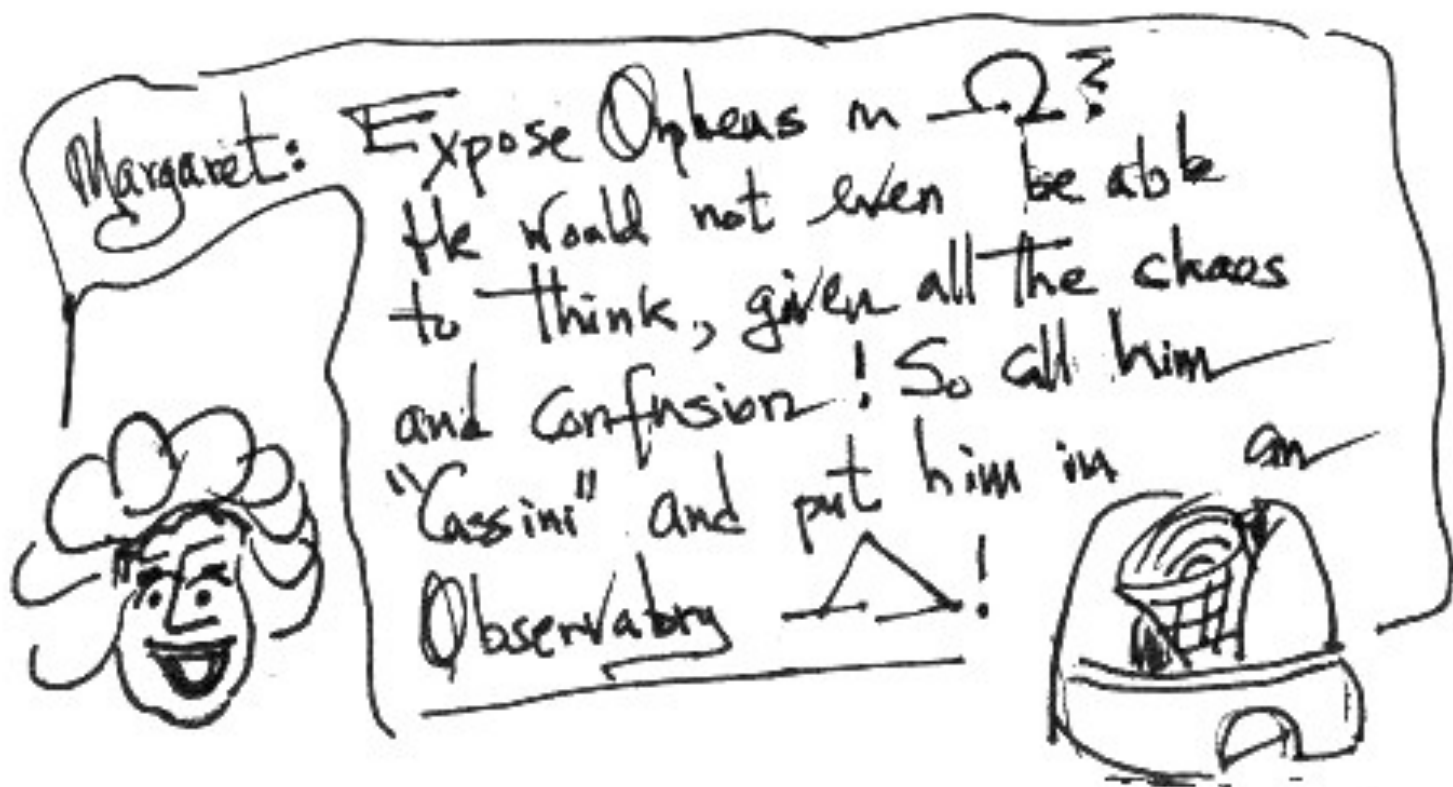


We now  
encounter our  
first major  
dilemmas:









Margaret: Expose Ophelia in  $\Omega$ ?  
He would not even be able  
to think, given all the chaos  
and confusion! So call him  
"Cassini" and put him in  
Observatory  $\Delta$ !



Samantha: If  $O$  is inside  $\Delta$ , she will set up an observed/observed paradox with  $\Sigma$ , just like in those weird quantum theories! So call her "Chatelet" and put her in the real world of  $\Omega$ !







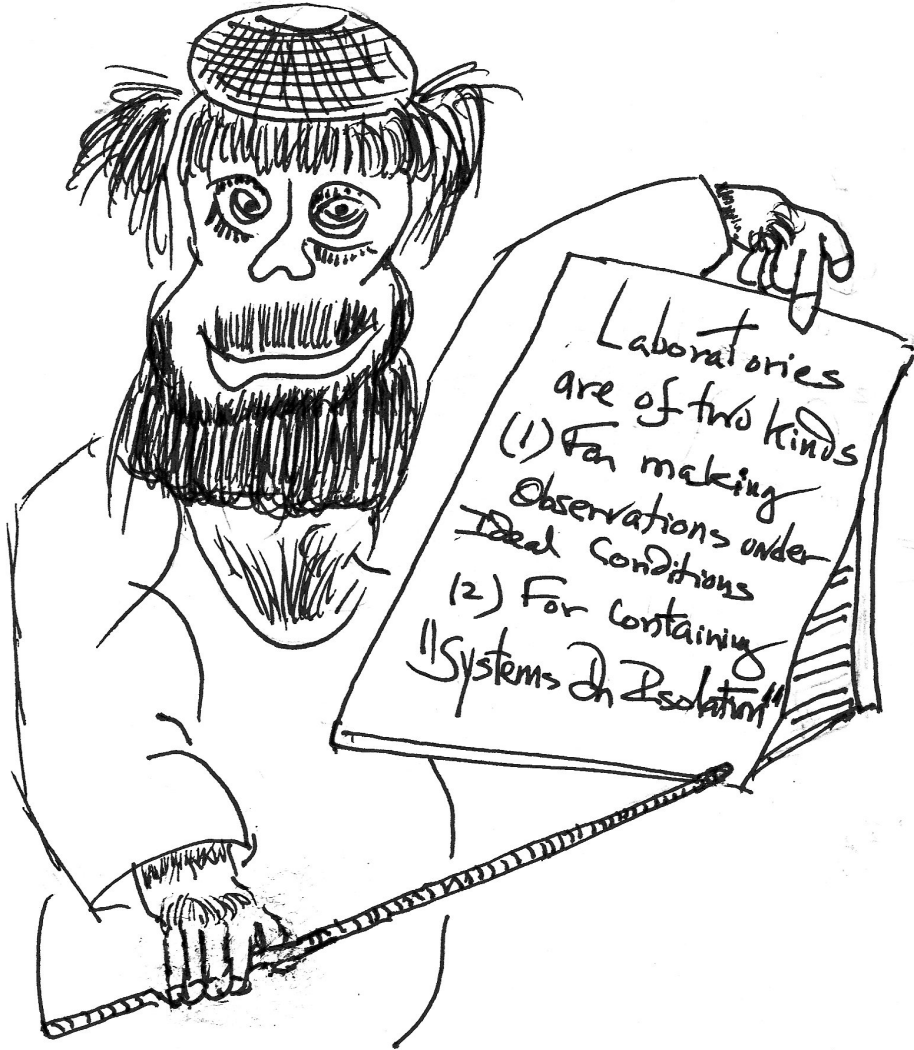


A big difference! Cassini  
is deluded by the bias  
of ISOLATION!!



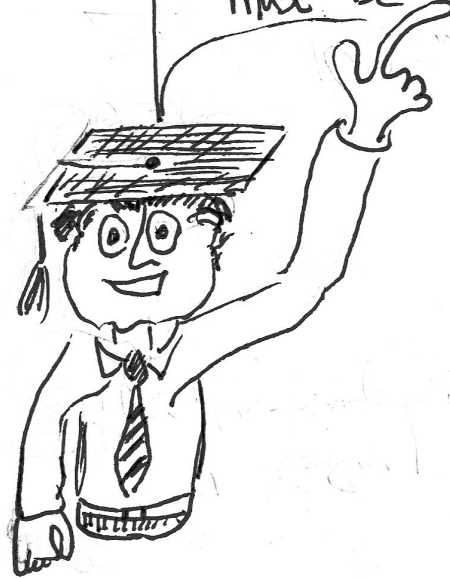
But, what does  
"Isolation"  
MEAN??

A Sub-Lecture On  
Isolation



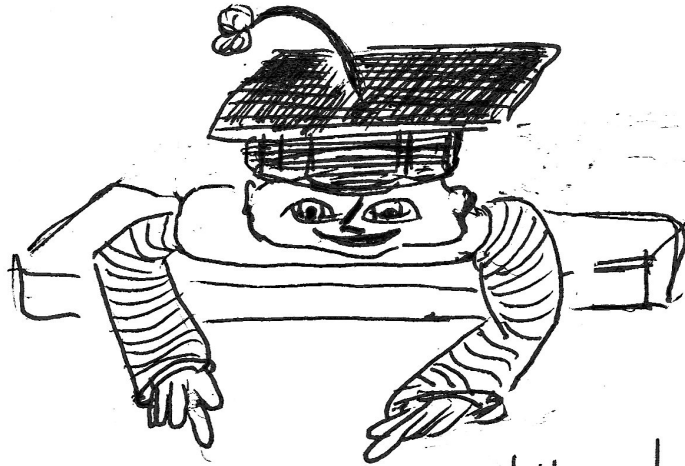
Laboratories  
are of two kinds  
(1) For making  
Observations under  
Ideal Conditions  
(2) For containing  
"Systems In Isolation"

Laboratories of  
"Ideal Conditions for Observation"  
must be located in real face time

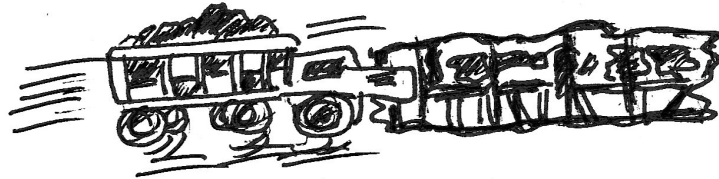


Whether pre-existent  
Or by design, they operate  
On "The 5 Principles"

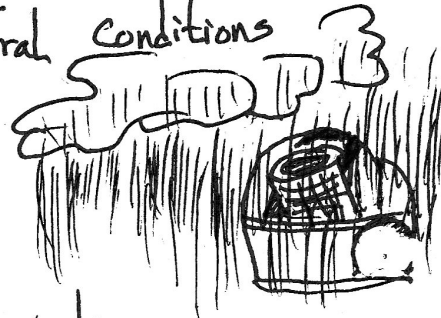




I. Insulation from avoidable interactions.



II TOLERANCE of natural conditions



III ESTIMATES of deviations  
from perfection

$$\pm \sigma_0 = 1.0001325018867$$

$$\pm \mu = 7 + 5.237 \times 10^{-23}$$

# IV Limitations on Knowledge, Time, Energy and Money





V PRAYER!



The "System in Isolation"  
can be understood as the  
"Idealization of the Laboratory"  
incorporating the Ideal  
Conditions for Observation  
of a system  $\Sigma$ !"



To be precise: A  
system in Isolation,  $\Sigma$   
"exists" in an Idealized Ideal Space  $\Delta$   
Which embodies the idea of the  
Ideal conditions required for the  
system  $\Delta$  to "exist"!



?  
But tell me: what is isolated  
in a system in isolation?



?  
Is it the isolated system,  
 $\Sigma$ ?



?  
Is it the isolating spaces  
 $\Delta$ ?



?  
Is it the Observer,  
Orphans?  
Cassini?  
Chatelet?



A closed system that cannot transfer or exchange "information" is something of a paradox: for what purpose is served by an experiment about which nothing can be known?



All the same, there is at least  
one Space-Time-Matter region  
 $B = \Lambda + \Sigma$ , for which this  
may be true:

(There exists some  
Controversy)

The Interior of a Black Hole





But .....







"Ideally, Observer  $O$  is observing the system from "IDEAL CONDITIONS" in  $\Omega$ , outside the "ISOLATING SPACE",  $\Lambda$ , that isolates the "System in isolation",  $\Sigma$ . Everything takes place in "PURE THOUGHT", you understand....."

To further elucidate these and  
Sundry matters, it now behooves us to  
consult the moth-eaten treatises



of several world-renowned,  
worm-eaten philosophers,



from Antiquity  
down to our own times .....



Aristotle: We, the Observers,  $\odot$ , live in a low, corrupted Universe  $\Omega$ , insulated from the World of angelic essences  $\Sigma$ , by a crystalline Sphere,  $\perp$ .



Plato: Our Observers  $\odot$  transition between the phenomenal World  $\mathbb{W}$ , and the world of pure ideas,  $\perp$ . Their observations contain a mix  $\Sigma$  of mind and matter that is everything that is the case.

"O God! I could be bounded in a nutshell and count myself a king of infinite space, were it not that I have bad dreams." — HAMLET



Shakespeare:

The observer,  $\odot$ , must not  
be placed inside the space  
 $A$ , of a system in isolation  
 $\Sigma$ ! Orpheus would be  
instantly stunned with  
an over-whelming recognition  
of the wretched misery  
of the human condition,  
and be unable to  
function!



Blaise Pascal



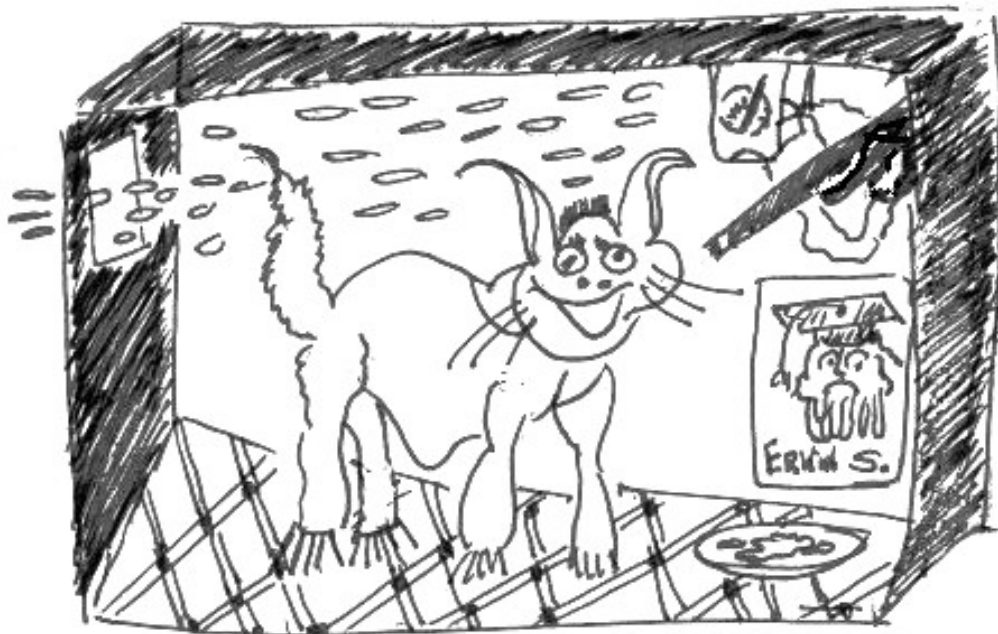
Descartes:

"Nature abhors a vacuum"  
The isolated space  $\Delta$   
is filled with sand  
which is grinding away  
the system in isolation,  $\Sigma$



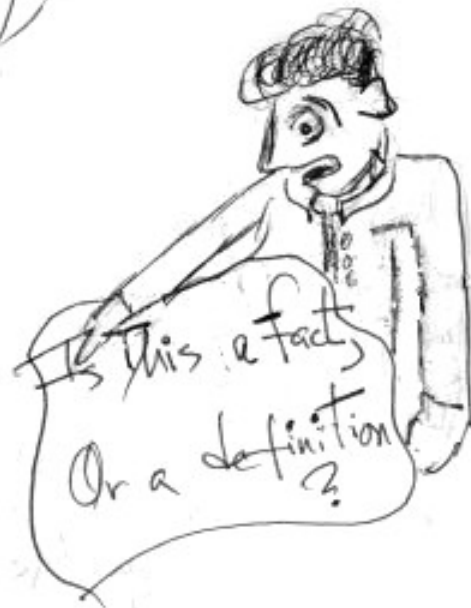
Leibniz:

All things are composed  
of Monads.  
Monads are observers  
observing other monads.  
 $\Omega, \Sigma, \Delta$  don't exist.  
The observer  $\bigcirc$   
is a gigantic  
fractal filling  
everything!



Hello! I am Schrödinger's Cat! I am the observer inside the box. I am also outside the box. If, despite its vanishing probability, I am detected outside the box, the cat inside the box collapses, and the gun can fire for all I care!

There is, naturally, one thing  
that the Observer has going  
for him/hers/hemself: relative to  
him/hers/hemself, he/she is  
a system in isolation: noiseless,  
unperturbed, non-self-interacting,  
perfect!



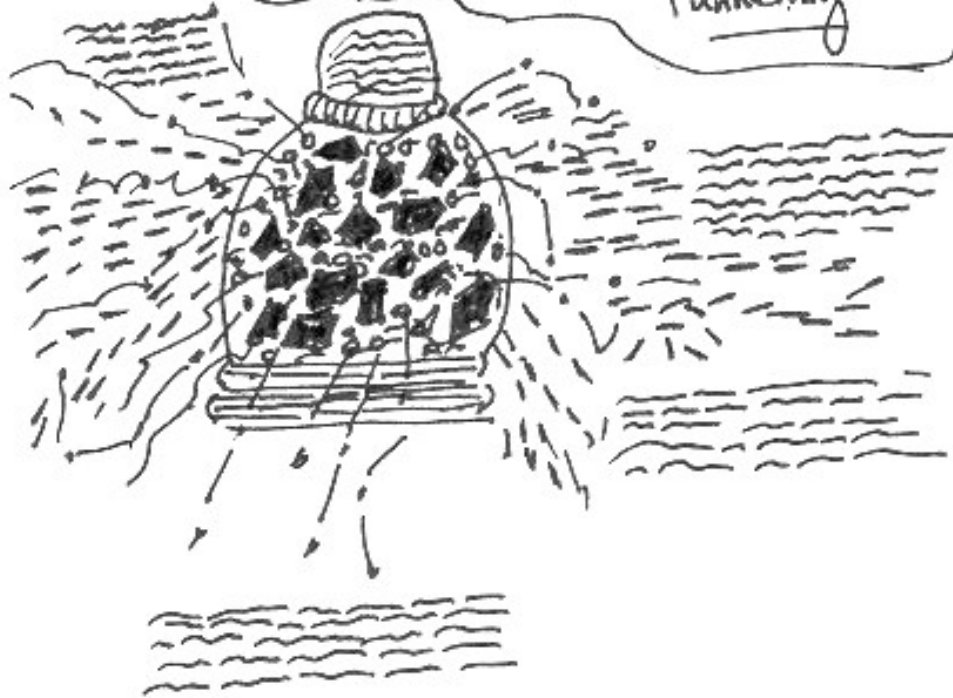




Observer  $O_1$ , call him Cassini,  
thinks of himself as unperturbed,  
imperishable, incorporeal, (relative to  
the phenomenon  $\Sigma$  he is  
observing in an isolation box,  $\downarrow$ )

Although living in  
 $\Omega_1$ ,  $O_1$  is a system  
in isolation unto himself!

Cassini's opinion of himself is supported by the Quantum Theory according to which there can be no "system in isolation". Any enclosed system will seep through any enclosure if one waits long enough. This process is known as tunneling.



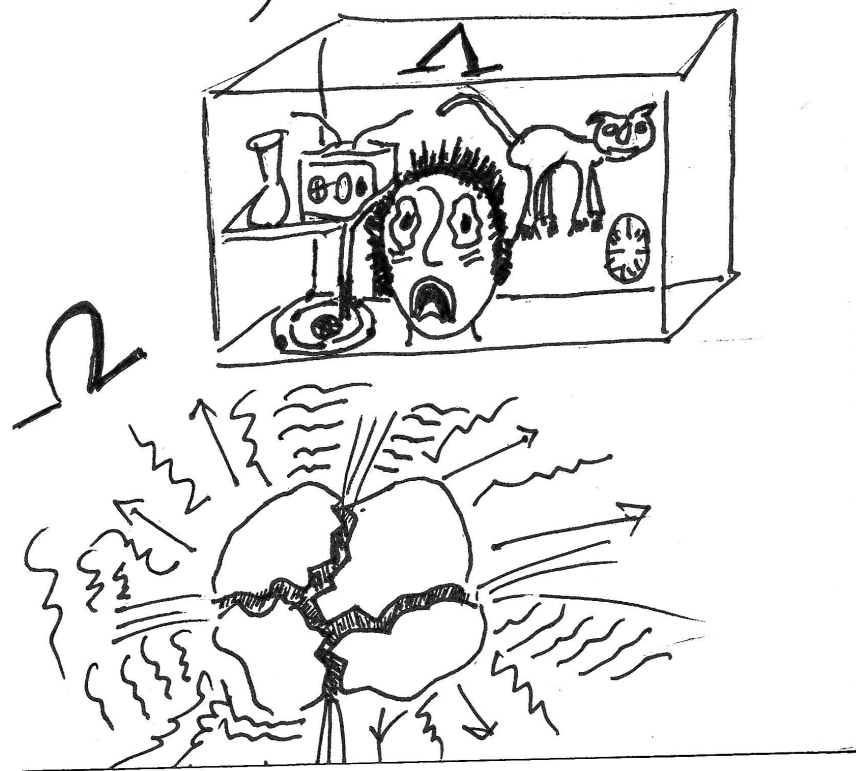
With one exception:  
Observers!

Observers retain their  
equipoise at all times!  
— They find their happiness  
in watching the tumbling  
of others — but never  
suggest to an Observer  
that he/she might be  
the thing being tumbled !!



4.

This is highly remarkable!  
Quantum Theory reverses the roles  
of  $\Omega$  and  $\Lambda$ ! All  
systems are in  $\Omega$ , whether  
they like it or not, and it is  
 $\Omega$ , the Observer, who  
lives inside  $\Lambda$ !





Observer  $O_2$ , call her Chatelet,  
has no intention of treating  
Cassini as some "incorporeal,  
imperturbable, *casavali*,  $\emptyset$ !"  
In fact, as seen by  
Chatelet, Cassini is a  
first-class  
Circus-Act!!



Cassini jumps! He jitters,  
Runs out the door and  
Comes in through the window



(At least that's  
Chatelet's opinion.)

However!!  
Chatelet sees herself  
As Cassini sees himself!

... imperishable  
incorporeal  
unperturbable  
indecomposable ...

Chatelet posits herself as the  
**STANDARD**

for rest, stability, objectivity, sanity ...



Relativity  
to the Rescue!

