

## Psychology and Mathematics

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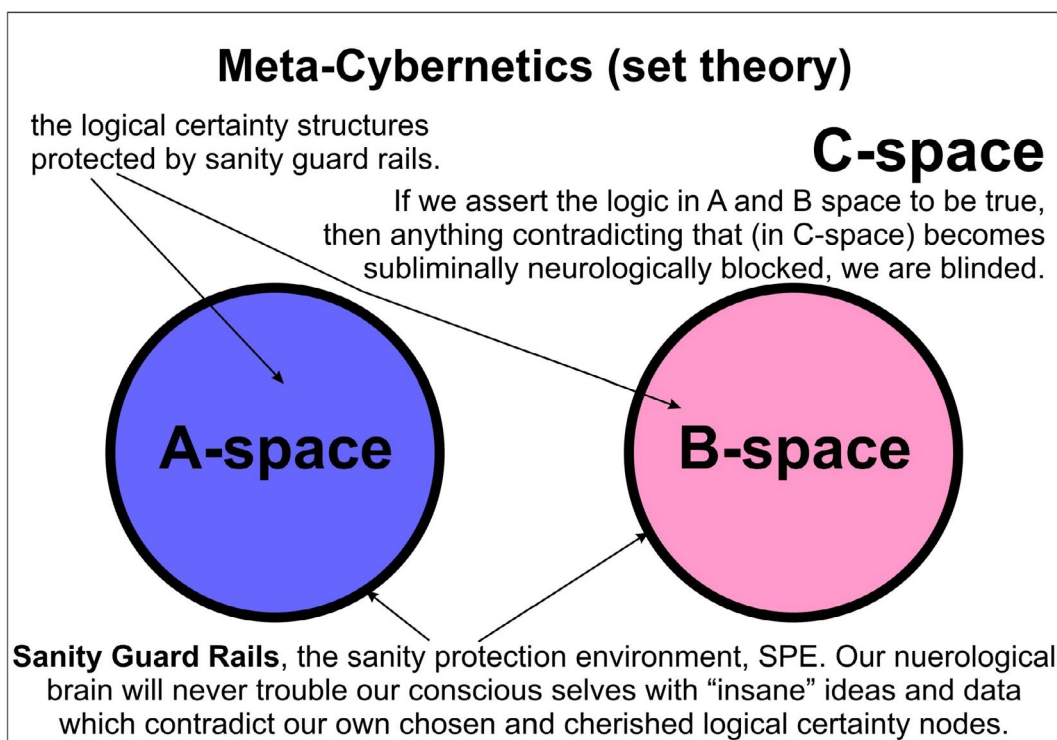
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### 1. The Meta-cybernetic Model of the Generic Human Mind

The term "Cybernetics" comes from the ancient Greek word "cybernaut" which refers to the steersman of a ship. In logical cybernetics we draw an analogy with this to steering our logical thinking towards an ever greater understanding of the Universe. The common cybernetic thinker, that is almost all of us, totally rely upon what we have been taught by others. We are like the steersman of a ship who takes over the watch from another, totally relying upon the logical navigation so far being correct. The very rare meta-cybernetic thinker says to himself "something is very wrong here". In order to find out what is wrong, I must go back to nothing and rebuild all my logical thinking back up from a void logical base. In air or sea navigational analogy terms, we must make the declaration "we are lost", hopefully before our aircraft runs out of fuel or we sail our ship over a terrible reef. Our only safe logical ground is to turn back to a secure void logical base and then start out all over again.

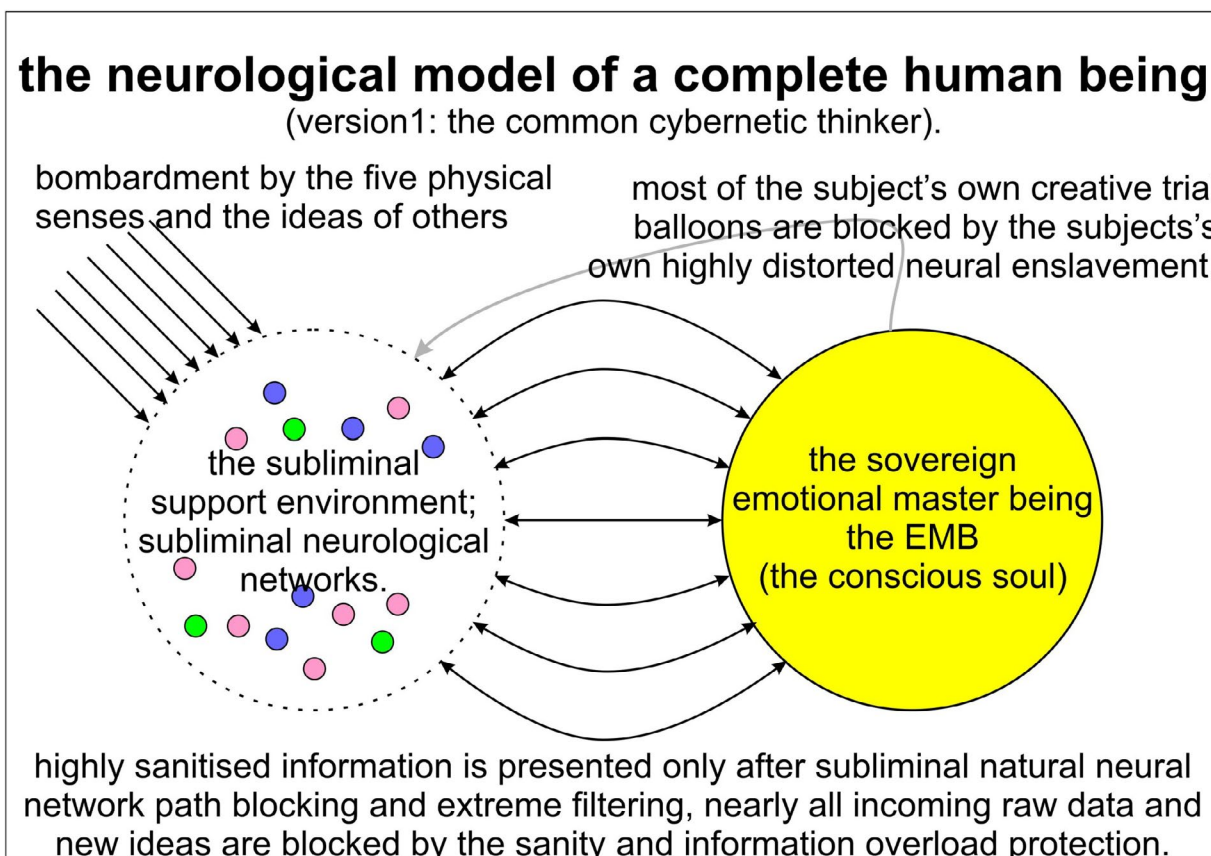
The meta-cybernetic model of the generic human mind was built up by examining the detailed processes of neural-networks within the mind of the thinker. In other words, we are thinking here about the neurological process of thinking itself. Nearly all (I would say 99%) of this so-called "thinking" process takes place at the subliminal level using autonomous logical deduction from established or cherished truth nodes. At some point, possibly deep back in our own or the planet's history, someone has proposed the underlying logic and it became adopted by you as if it was perfectly true. Most often we ourselves have never even thought about whether that logic was true or not, we have just taken it all on trust. Trusting in the logic of mere fallible human beings (including one's own previous thinking) is about the most reckless thing that any true logical thinker could ever do.



My development of the meta-cybernetic model way back in 2012, came out of work done in AI in the mid 1980s. We built an artificial anaesthetist using just seven artificial neurons. After 1.5 million virtual years of synthetic training experience, our AI anaesthetist turned out to be more accurate and more precise than the best of the human kind.

In order to examine what can cause human beings to make mistakes, I built up a model of a complete neurological

human being. The model was tested against the air crash investigation reports from hundreds of well documented air crash investigations. The model turned out to be powerful in explaining every proven case of pilot or ATC controller human error. The air crash investigators also have to study and employ psychology, all my meta-cybernetic model does is to in effect explain all this great work of the air crash investigation practical psychologists, but at the detailed neurological network level.



Confirmation of the above generic model of the human mind can be most quickly confirmed by this simple air crash report, documented on YouTube by an actual air pilot. <https://www.youtube.com/watch?v=VsT8Q0Fmdcc> [1] Should one imagine that air pilots are either suicidal maniacs, utterly incompetent or imbeciles, then I for one must beg to differ with that view. They are more numerate and capable than all of our wildest dreams. Once the two flight-deck crew of Varig Flight 254 (1989) had decided that 270 magnetic was the correct course to fly to Belém and taken action upon that by electing to fly 270 magnetic for 50 minutes (the so-call action confirmation bias), then hell can freeze over but they become no longer capable of understanding the faintest thing about what had actually gone wrong for them. Had I been on board, then I would have written a note to the captain asking him why he had been flying West into the setting sun for nearly an hour while Belém is a short 40 minute hop to the North of Marabá, but I was not on board.

A full meta-cybernetic analysis of what went on in that cockpit with just two people for just three hours could easily fill a substantial book. There is an amusing deep fractal analogy between what went on in that cockpit for three hours back in

1989 and the entire human race for the last 1800 years. This has been ever since the “discovery” by Diophantus of Alexandria of the clever Chinese dodge of using negative numbers. In fact Hero of Alexandria had showed the square root inverse-one (-1) about 200 years earlier, so what Diophantus had "invented" there was nothing but sheer unadulterated human hubris and a piece of blatant academic plagiarism.

## 2. Enter the Meta-Cybernetician

The model allows for certain individual thinkers to be meta-cyberneticians. Anyone could be a metacybernetician, it does not usually require great intelligence. It is just that most people simply wish to conform and agree with everybody else. Meta-cyberneticians are socially disruptive, society would just not work at all if most people acted as meta-cyberneticians. A good example of a socially disruptive and unwanted meta-cybernetician is a conspiracy theorist. The conspiracy theorist invents an artificial logical problem which does not really exist and then solves the non-existent puzzle with his daft conspiracy theory. The place where a meta-cybernetician is essential is where everybody agrees that there is a problem and then a meta-cybernetician can offer a solution to the puzzle that other people

could examine and trial-adopt that to find out if that solution helped them.

For example; everybody ought to be aware that Einstein's special theory of relativity and the observation of instant action at a distance in quantum entanglement do not concur. We must run with the actual physical observations and ignore Einstein's special theory. We require a meta-cybernetician to come along and explain Einstein's misunderstanding. This is not going to

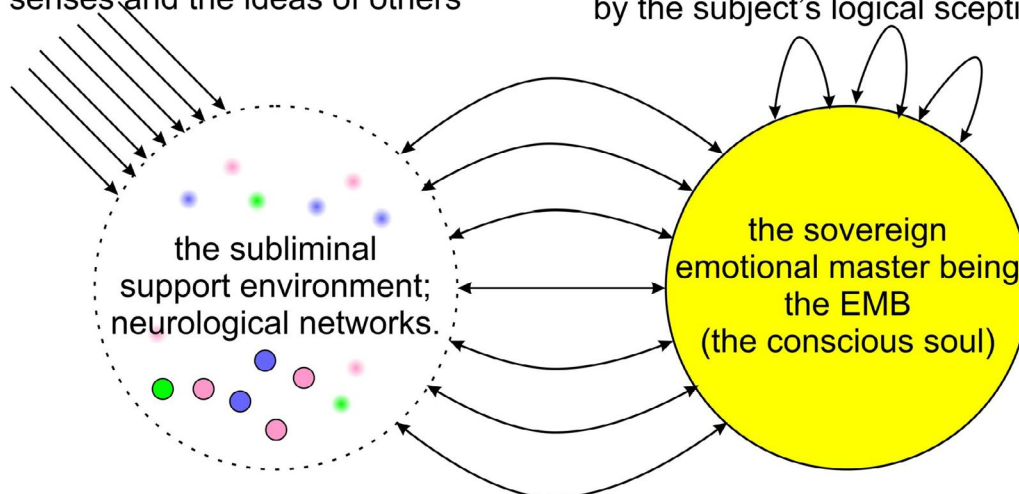
come from an established theoretical physicist, those people are basically just physics-establishment yes-men or lunatics. Proof that that was never going to happen is that it is now 52-years since the first laboratory confirmation (Clauser and Freedman 1972); the establishment physicists and the wild lunatics have had enough time and have utterly failed to explain the tiny and absurdly simple adjustment required to correct the logic of Einstein's special theory.

## the neurological model of a complete human being

(version 2: the far rarer meta-cybernetic thinker; i.e. Galileo, Einstein etc).

bombardment by the five physical senses and the ideas of others

new creative trial balloons empowered by the subject's logical scepticism.



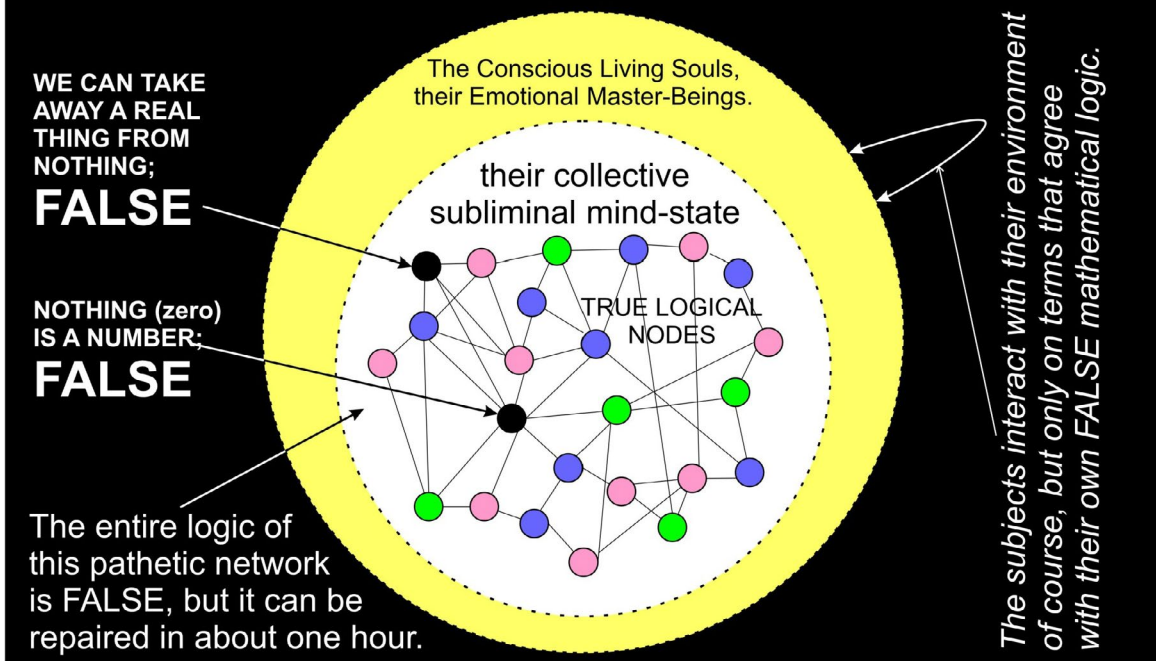
information is presented to the EMB without some of the sanity protection, notice the absence of some sanity guard rails. The sensible meta-cybernetician will only remove the sanity protection with caution, a few elements at a time.

### 3. A Meta-Cybernetic Opinion of Negative Numbers

The meta-cybernetic model was not built with any thoughts of mathematics in mind, but it turned out to be an essential tool for

analysing the two tiny changes needed for the new mathematics required in Quantum-Relativity (qr).

# A meta-cybernetic analysis of the neo-Pythagorean cult's theory of Numbers.



This has been just a very brief introduction to Meta-cybernetics. If you are interested in my work on this new topic and the closely associated new topics of Unified Number Theory and Quantum

Relativity, then you can learn about all of my work and my new discoveries on my website at:

<https://www.gnqr.co.uk/>

## Reference

1. <https://www.youtube.com/watch?v=VsT8Q0Fmdcc>

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