

Differently inclusive science

How could science be different?

-before answering that I'm confused with , what is science , what is the definition of science ?

To what degree does (or must) math come before physics versus being created to address questions in physics? Could we have had centuries of advanced mathematics before physics came to be? Or is the opposite possible?

-Tied and interconnected.

Could there be very different sets of mathematics—potentially based on different axiom choices—that support science comparable in power to the way it is now?

-Maybe yes, this is a never ending search, from a human perspective mathematics is locally trivial. The following is a guess, there is a geometry that can be developed with a structure that looks like an associative operation with no more or no less than twenty-eight shuffling of terms.

Could scientific modeling be done on a basis other than mathematics, such as clockwork constructions or other analog models?

-Maybe yes, this is a never ending search, just because something works this should not settle exclusion for other possibilities. the mathematical schemes might look exactly like some parts of the brain circuitry, seeing brain parts overlapped or lumped with math

What would it be like if science were fundamentally based on discrete computation, cellular automata, and the like, rather than differential questions?

-Incomplete missing something, or maybe formulating the question in this way creates confusion. What is the definition of a definition ?

If we meet technologically advanced aliens, how similar is their physics (or mathematics) likely to be? How different could it be?

- Depends mostly where they are and their local history, they might remember a lot more things, and their history goes through many fortunate accidents that help them advance quickly. They might have a different language where each word is a quantifier.

Is it possible to have technology comparable to current human technology without scientific reasoning of a type we would recognize? E.g., could an incredibly powerful artificial or biological neural network predict or design elements of reality

“unconsciously” without models, theories, and

mathematical reasoning of the type we do? (We can note that nature has solved many problems by trial and error rather than understanding and design.)

-Maybe

Could different branches of science have evolved at different rates? In such a case, what would have happened if e.g., biology had advanced rapidly before the development of physics?

- This scenario example means that there would have appeared much more scientific data concerning animals, plants, ecosystems, taxonomy that would be mysterious and with higher level explanations coming from physics, difficult to explain.

In another historical timeline, or in a fully egalitarian culture without prejudice and bigotry, how could it have been different? How would one make it different now?

-This answer depends on how far in the historical time-line past, is supposed to go. A recent example could be if hearing aids could have not been invented, or more in the distant past of human history, what if food resources were abundant for the homo erectus and implying no need to fight and hunt with giant wild beasts, that slowly evolutionary induce aggressive personality traits and less egalitarian family structure; differently phrased, a more balanced male female intelligence level.

How could science be better?

How and why are scientific theories guided by data, simulation, prediction, consistency, beauty, simplicity, breadth, and so on? What are essential, and what are distractions?

Are there significant elements that the current practice of science is missing that would make it much more effective, or perhaps as effective but very different?

Are there significant changes to the institutions and ways of learning, journals, and other ways of communicating, etc., that would make science more effective and equitable?

Suppose science were different—and better—decades from now. How? In such a future, how does publication (if it happens) work? How do universities (or their replacements) work?

These are the questions and some fast evaluating answers, the following represents instances of short more or less fantasy stories with core ideas glimpses answers.

Personality traits of a scientist : what if a scientist is a quantum physicist that decides he wants to live considering a way of choosing random events appearing in certain sequences to his conscious experience, with a solid seed of facts and evidence but also a mode of visual thoughts.

The buffer yard : there is a place with an old building, large like a factory. If you don't pay close attention it looks like a rocky hill or the erosion cut of a metamorphic marble mountain with vegetation on top. This place contains biological matter, maybe even corpses of people. Nobody knows how those things get in there but sometimes live people do show out and tell interesting stories of their previous lives and know how to do new amazing things.

Einstein's ghost watches a documentary about his own life , at a certain moment he pauses and, after that, the movie screen changes and suddenly has a plot twist .

The information silos flow: where is scientific knowledge usually stored, in datacenter books and people's brains . What if a network of fridges containing food and terminals with quizzes, tests, know-hows, are placed around nice landscape bike trails or in cities with sweet prizes being released on completion of tasks, encouraging people to move and solve problems. On the same note large banners in cities might contain proofs or randomly chosen scientific facts , or by extending of playing board games, going from a single table with few people to entire villages.

An ancient person born in the iron age enters the room of an university lecture seminar , he looks at the blackboard where the teacher write and speaks and the other students take notes. he looks at the board once more and imagine that the table is like a lake with water, ships and boats floating around like the letters and symbols .

Something discovered in a place under certain constraints and needs and applicable in another remote place in a different configuration where the context does not favor the apparition of that discovery , not even the idea that such something is possible.

Musicians heated on strike go against earplugs pandemics obligatory wear, stating that the people have become even more ignorant and less appreciative of music and make claims that the sound pollution increased by a large percent .

A university building with giant legs , almost like floating, travels slowly to settle and meet another remote place university, for the traditional twenty decades partnership pair location exchange ritual; not only the buildings , Maybe the suniversity programs might span other objectives than timed degrees. maybe teachers should make visits to student ,participate in different learning strategies focused on learning and also on the living experience

At the dinner table, delivering a message: by sound it's a movement of the jaw tongue thoracic lung box, not much a couple of centimeters . Replacing the sound with a notepad may double the effort . Writing on the notepad, displacing or sliding the notepad to the other persons , then the other persons to pay attention to read. Replacing the dinner table with a two meter gap, then the effort goes a couple of times higher than the initial sound delivery , because persons must make steps to go nearby each other. Who is going to start moving first ? and how much, both the first or the second, then after that there is a hand movement to give and hold the notebook, respectively, now after all of this , the situation is the same like in the previous situation with the dinner table.

The -not yetti -explored space of languages; a new founded website, accessible at any hour , for deaf words www.sign2mint.de can sort the content not only by the starting alphabetic letter of german pronunciation , deutsch geschrieben wörter mit buchstaben , also by some kind of visual abstract symbol categories which impersonate the sign behavior. These can be interpreted or acted, through a person standing frontally alone in a studio ,by starting the corresponding video.

Maybe in the last years books have increased in numbers. Certainly not decreasing like the total number of trees . Libraries have gotten larger and sparkling and more inviting, let's enter and open a book , wow nice cover , let's look inside : letters only letters ! and rows inline puzzles , aa i mean the boats , are floating in lines.

A parallel program , similar to how online collaboration tools work like folding at home or rosetta , maybe there is a way to spread through peoples mind and as opposed to computers , a scientific mode or behavior.