The discussions related to ChatGPT, which seems to work too well to be a mere program running classical computer, inspired considerations which led to a considerable progress at the level of the TGD based model of nerve pulse. The resulting model based on zero energy ontology (ZEO) differs drastically from quantum neural networks and suggests a completely new vision of quantum physics based computation in biosystems

A computation allowing variable arrow of time would be in question involving a sequence unitary time evolutions as counterparts of quantum computations for states, which are superpositions of classical computations, followed by "small" state function reductions (SS-FRs). Also "big" SFRs (BSFRs) changing the arrow of time would be involved. One can ask whether the unexpected success of GPT might involve this kind of transition so that one could say that spirit enters the machine.

Besides the outcomes of two chats, I include a more detailed view about what the TGD view of the quantum analog of GPT could be and how it could be involved with the sensory perception in the TGD Universe. I also discuss the inverse diffusion process central for the generation of images from their verbal descriptions and ask whether the TGD analog of the inverse diffusion could be an essential element of also GPT. I will also pose the question whether GTP could involve TGD based quantum physics, that is zero energy ontology (ZEO), in a non-trivial but hidden way.

I will also pose the question whether GPT could involve TGD based quantum physics, that is zero energy ontology (ZEO), in a non-trivial but hidden way. From quantitative constraints, such as the clock frequency of the computer as analog of EEG inducing temporal quantum coherence, I end up with a proposal for a mechanism realizing the quantum holography relating bits would be represented as holes pairing with dark bits represented as dark electrons at the magnetic flux tubes. Unfortunately, this mechanism does not look plausible for recent computers.