Our brains have 11 dimensions

Scientists studying the brain have discovered that the organ operates on up to 11 different dimensions, creating multiverse-like structures that are “a world we had never imagined.”

By using an advanced mathematical system, researchers were able to uncover architectural structures that appears when the brain has to process information, before they disintegrate into nothing.

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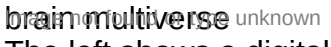
[The researchers] discovered that when they presented the virtual tissue with stimulus, groups of neurons form a clique. Each neuron connects to every other neuron in a very specific way to produce a precise geometric object. The more neurons in a clique, the higher the dimensions.
The structures assembled formed enclosures for high-dimensional holes that the team have dubbed cavities. Once the brain has processed the information, the clique and cavity disappears.



brain multiverse unknown
The left shows a digital copy of a part of the neocortex, the most evolved part of the brain. On the right is a representation of the structures with different dimensions. The black hole in the middle symbolizes a complex of multi-dimensional spaces, or cavities.

Henry Markram, director of Blue Brain Project, said the findings could help explain why the brain is so hard to understand. “The mathematics usually applied to study networks cannot detect the high-dimensional structures and spaces that we now see clearly,” he said.

[Read the full study here]

The GLP aggregated and excerpted this blog/article to reflect the diversity of news, opinion, and analysis. Read full, original post: Architecture: Scientists Discover 11 Dimensional Structures That Could Help Us Understand How the Brain Works