

# The Case Against Quantum Computing

The proposed strategy relies on manipulating with high precision an unimaginably huge number of variables

by Mikhail Dyakonov, IEEE Spectrum, November 2018 -

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“Quantum computing is all the rage. It seems like hardly a day goes by without some news outlet describing the extraordinary things this technology promises. Most commentators forget, or just gloss over, the fact that people have been working on quantum computing for decades—and “without any practical results to show for it. ....”

**The huge amount of scholarly literature** that’s been generated about quantum-computing is notably light on experimental studies describing actual hardware. The relatively few experiments that have been reported were extremely difficult to conduct, though, and must command respect and admiration. ....”

“..... experimental difficulties that are hard to overcome. Most probably they are related to the simple fact that  $2^5 = 32$ , while  $2^{50} = 1,125,899,906,842,624$ . ....”

“Could we ever learn to control the more than  $10^{300}$  continuously variable parameters defining the quantum state of such a system?

My answer is simple: *No, never.*

I believe that, appearances to the contrary, the quantum computing fervor is nearing its end. That’s because a few decades is the maximum lifetime of any big bubble in technology or science. After a certain period, too many unfulfilled promises have been made, .... “