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Despite its status as a core part of contemporary physics, there is no consensus among physicists or philosophers of physics on the question of what, if anything, the empirical success of quantum theory is telling us about the physical world.

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When I was an undergraduate student in physics -- quite a while ago -- there was a running joke in the department that went something like this: quantum theory is the science of preparing systems in one state and detecting them in another state; everything that happens in between is philosophy.

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Quantum technology is an emerging field of physics and engineering, which relies on the principles of quantum physics.

Quantum computing, quantum sensors, quantum cryptography, quantum simulation, quantum metrology and quantum imaging are all examples of quantum technologies, where properties of quantum mechanics, especially quantum entanglement, quantum superposition and quantum tunnelling, are important.

According to John von Neumann, quantum technology is different from the deterministic clas David Deutsch, *Physics, philosophy and quantum technology ...*

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Quantum mechanics holds a unique place in the history of physics. It has produced

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