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Quantum Computing: where is it going and what is it good for?

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The technology of quantum computers and related systems is advancing rapidly, and powerful programmable quantum processors are already being made available by various companies. Long before we reach the promised land of fully fault tolerant large scale quantum computers, it is possible that unambiguous "quantum advantage"will be demonstrated for certain kinds of problems, including problems of interest to physicists. At the same time, advances in the technology of quantum processors are likely to go together with advances in quantum sensing and quantum communications, enabling new kinds of physics experiments.

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