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«Топологический кубит» — это квантовый бит, который не подвержен декогеренции, то есть он не теряет свою квантовую информацию из-за взаимодействия с окружающей средой. Это достигается за счет того, что информация хранится в топологических свойствах системы, которые не меняются при локальных возмущениях. Такие кубиты считаются более устойчивыми к ошибкам, чем традиционные кубиты, что делает их перспективными для создания квантовых компьютеров с высокой надежностью.

این مطلب یکی از مجموعه مقاله‌های پرونده ویژه «**کامپیوترهای کوانتومی**» است که در [مجله علمی و فناوری](#) منتشر شد. برای دانلود این پرونده ویژه می‌توانید [اینجا](#) کلیک کنید.

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QUESTION

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Microsoft executive Todd Holmdahl will lead the scientific and engineering effort to create scalable quantum hardware and software. The company is investing heavily in quantum computing, which has the potential to revolutionize industries like finance, healthcare, and logistics. Holmdahl, who has a background in physics and engineering, is leading a team of scientists and engineers working on developing practical quantum computers. The goal is to create machines that can solve problems that are currently intractable for classical computers. This effort is part of Microsoft's broader strategy to advance artificial intelligence and cloud computing. The company believes that quantum computing will be a key driver of innovation in the coming decades. Holmdahl's team is focused on both hardware and software development, aiming to create a complete quantum ecosystem. The project is highly interdisciplinary, involving experts from various fields. Microsoft is also collaborating with academic institutions and other industry partners to accelerate progress in this field. The ultimate aim is to bring quantum computing to the mainstream, enabling businesses and researchers to harness its full potential. This initiative represents a significant commitment to long-term technological research and development.

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