

"Novel Error-Correction Scheme Developed for Quantum Computers"

Submitted by [grigby1](#) on Mon, 03/16/2020 - 12:03pm

A team of scientists from the University of Sydney, Royal Melbourne Institute of Technology (RMIT), and the University of Queensland has developed a new scheme for reducing errors faced by different types of quantum hardware. The quantum error correction codes developed by researchers aim to reduce the number of physical quantum switches or qubits needed, thus potentially scaling quantum computers up to complete functional machines. According to scientists, these codes are platform agnostic, allowing them to be applied to various quantum hardware systems. Much effort is being made by universities and technology companies worldwide to develop a universal, fault-tolerant quantum computer as such technology will bring advancements in security, cryptography, and more. This article continues to discuss the need for robust qubits, the fragility of quantum superpositions, and the error-correction approach for quantum computers developed by scientists in Australia.

[The University of Sydney reports "Novel Error-Correction Scheme Developed for Quantum Computers"](#)
