

Advances in Quantum Error Correction

by

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A dissertation submitted in partial fulfillment \ of the requirements for the degree of \ Doctor of
Philosophy \ (Physics) \ in The University of Michigan \ 2025

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This dissertation presents novel approaches to quantum error correction in noisy intermediate-scale quantum devices.

Chapter 1 Introduction

Quantum computing promises exponential speedups for certain problems.

Chapter 2 Methods

We propose a new class of stabilizer codes.

Chapter 3 Conclusion

We have demonstrated practical quantum error correction.