Understanding Quantumness And Testability.

D. Ponarovsky[1]

Master-Exam-Huji.

Faculty of Computer Science
Hebrew University of Jerusalem

Today.

- Brif Review of Coding.

Today.

- Brif Review of Coding.
- Quantum Error Correction Codes.

Today.

- Brif Review of Coding.
- Quantum Error Correction Codes.
- Good Classical Locally Testabile Codes and Good Qauntum LDPC.

Introduction.

The work assumes only a basic knowledge of linear algebra and combinatorics. So we believe that every computer science graduate will be able to enjoy reading it, understand the subject very well, and use it as a gateway for starting research in the field.

Coding.

Coding.

Can we come up with a code that tolerates $*$ bits flip?

Coding.

Quantum Error Correction Codes.

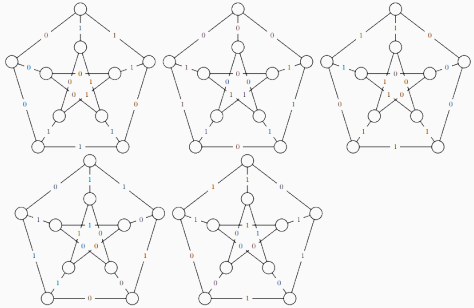
Coding.

Coding.

Coding.

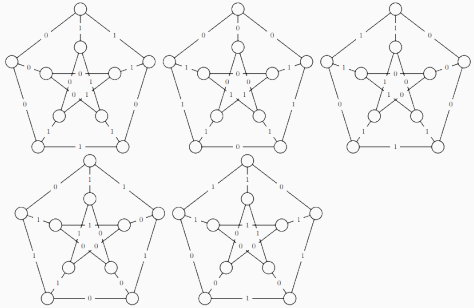
BUS.

- A BUS is a communication pathway that transfers data between different components of a computer.



BUS.

- A BUS is a communication pathway that transfers data between different components of a computer.
- Buses connect IO devices such as keyboards, monitors, and printers to the computer's central processing unit (CPU).



BUS.

- A BUS is a communication pathway that transfers data between different components of a computer.
- Buses connect IO devices such as keyboards, monitors, and printers to the computer's central processing unit (CPU).
- Buses provide a standardized way for different components to exchange data with each other, simplifying device connection and ensuring compatibility.