Quantum Computing and Cryptography - 13: General Single-Qubit Measurement

MICROMODULE

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Outcomes

Apply and Analyze

Students will be able to calculate the probabilities of outcomes for a given basis using projection operator and determine the final state of the qubit.

Apply and Analyze

Students will be able to apply the density matrix formulation and will be able to apply it for projective measurements.

Apply and Analyze

Students will be able to calculate the projection operators for a basis.

Remember and Understand

Students will be able to restate the theory behind projective measurements.

Apply and Analyze

Students will be able to apply the measurement postulate in quantum mechanics for projective measurements.