

Quantum Coin Toss Simulator Report

This project simulates a quantum coin toss using PennyLane and visualizes the outcomes using matplotlib.

A qubit is initialized, put into a superposition state using the Hadamard gate, and then measured.

The simulation is run 1000 times, and the results are plotted.

Quantum Circuit:

- 1 Qubit
- Hadamard Gate
- Measurement
- 1000 shots

Results (Example)

Heads (0): 512

Tails (1): 488 times

Quantum Coin Toss Results (Example)

