

# Grover's Algorithm: Ideal vs Noisy Simulation

Target State:  $|101\rangle$

Hellinger Fidelity: 0.9109

Ideal  
Noisy (FakeBrisbane)

Probability

0.8

0.6

0.4

0.2

0.0

Quantum State

$|000\rangle$

$|001\rangle$

$|010\rangle$

$|011\rangle$

$|100\rangle$

$|101\rangle$

$|110\rangle$

$|111\rangle$

0.946

0.744

0.030

0.046

0.022

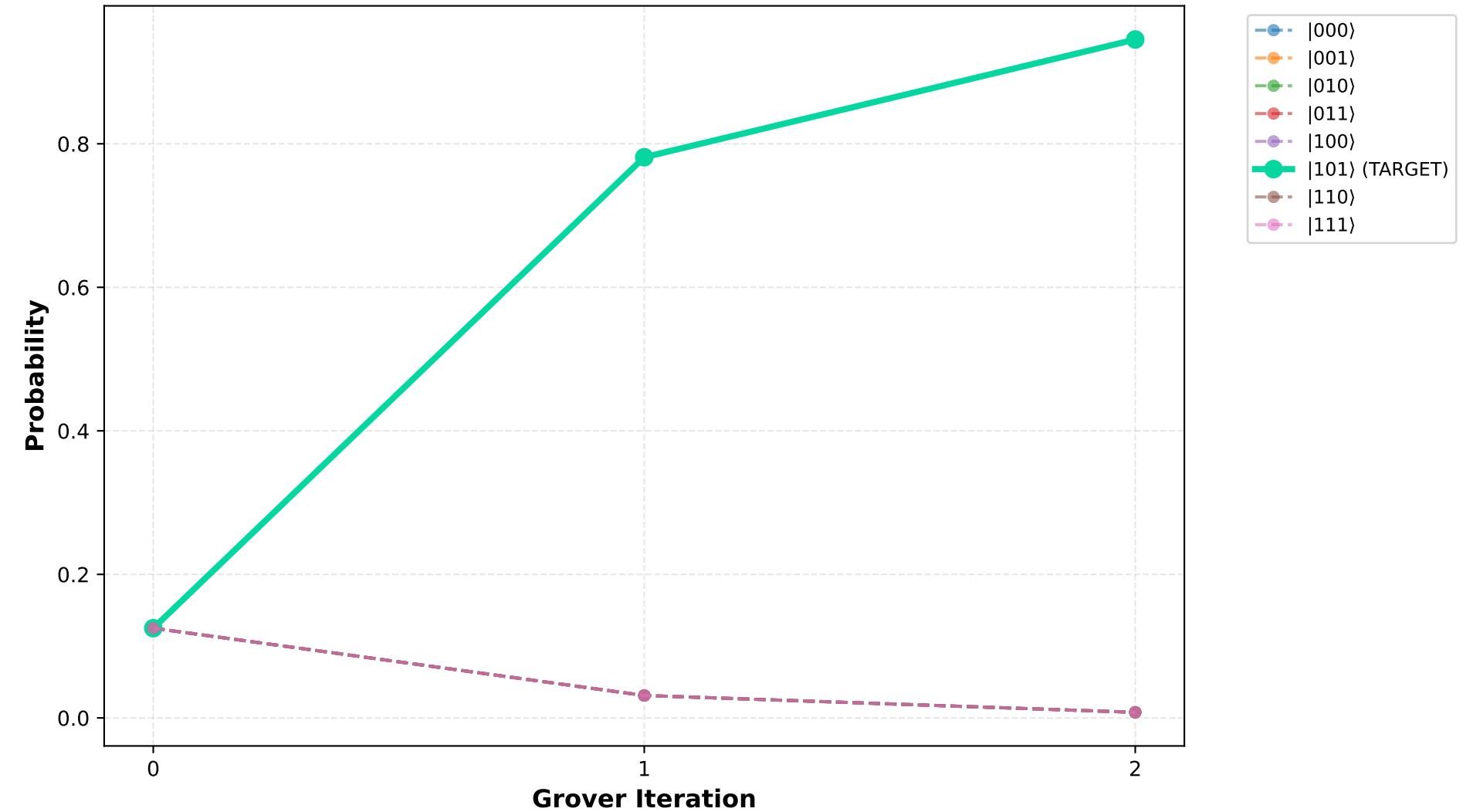
0.030

0.055

0.027

0.046

# State Probability Evolution During Grover's Algorithm



# **Grover's Benchmark Report**

Generated: 2026-02-05 00:46:36

Source Data: grover\_benchmark\_20260205\_004634.csv

Hellinger Fidelity: 0.910941