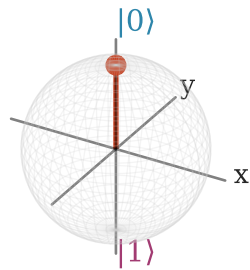
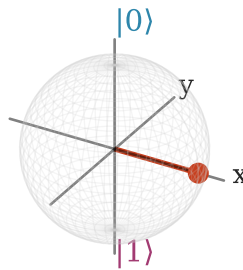


Biological Quantum Gates: Oscillatory Phase-Lock Implementation (Sachikonye, 2025 - SSRN 5680582)

A. $|0\rangle$ State



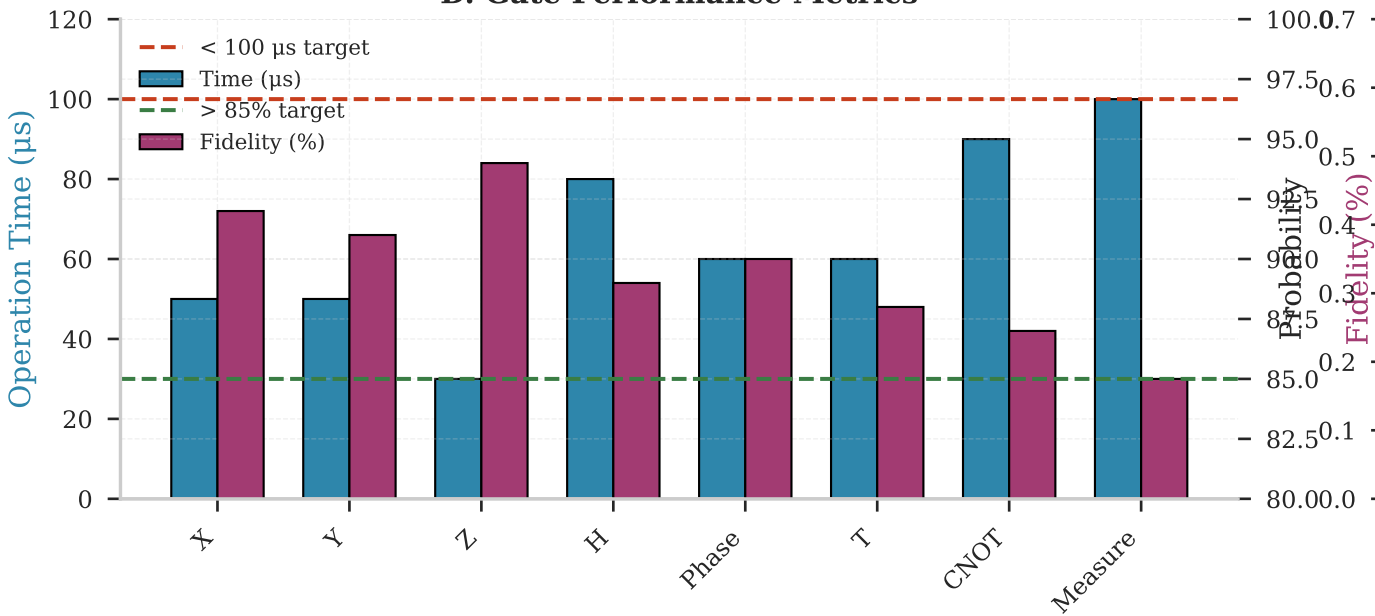
B. $|+\rangle$ State



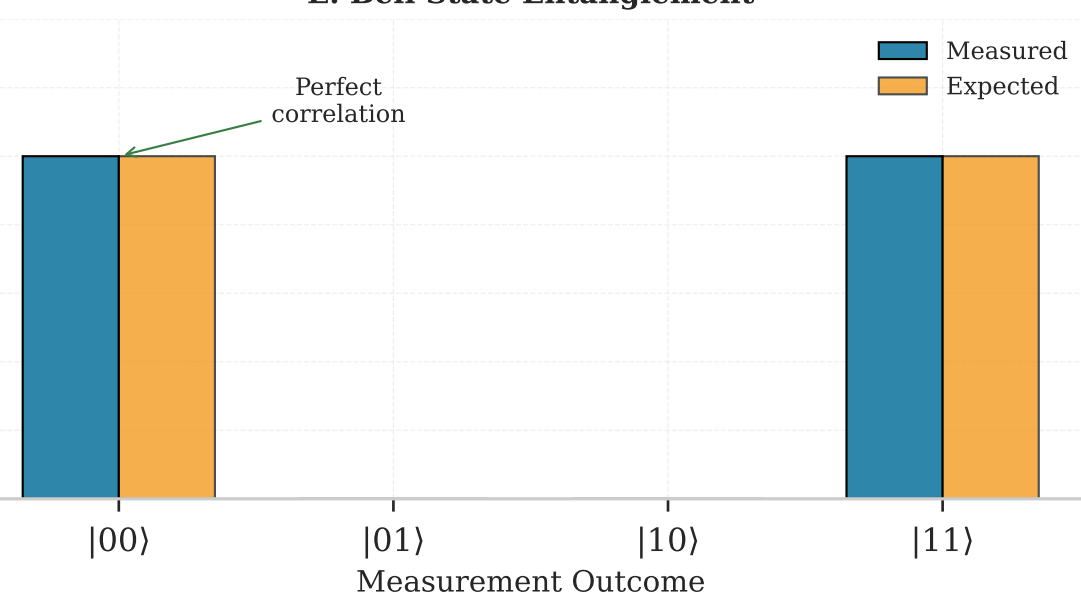
C. Quantum Gate Operations

X	$ 0\rangle \rightarrow 1\rangle$	Bit flip
H	$ 0\rangle \rightarrow +\rangle$	Superposition
Z	$ +\rangle \rightarrow -\rangle$	Phase flip
CNOT	$ 00\rangle \rightarrow 00\rangle$ $ 11\rangle \rightarrow 10\rangle$	Entangle

D. Gate Performance Metrics

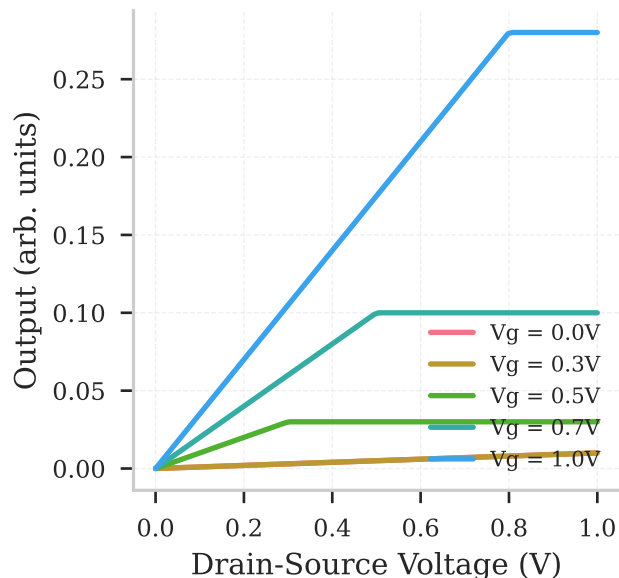


E. Bell State Entanglement

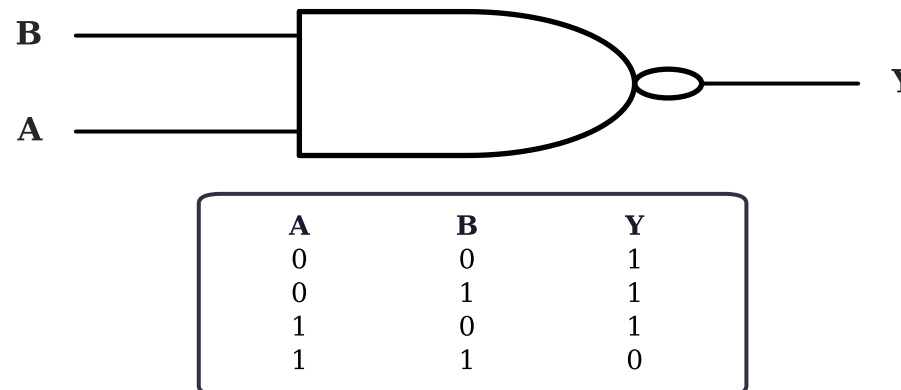


F. Transistor Curves

Gate Type



G. Universal NAND Gate



H. Biological ALU

