Decoding and results

(A) Quantum circuit with qubits labeled 0 through 7, each initialized with $\Gamma^\dagger \beta_i$ gates, followed by a network of CNOT gates, with qubit 1 passing through $(S^{s'})^\dagger$ and H gates before measurement. Input state $|\varphi\rangle$.

(B) Simulated Data — CDF versus θ_{pol} [rad] for Electron and Muon.

(C) Decoded Data — CDF versus θ_{pol} [rad] for Electron and Muon, with Encoded and Retrieved curves.

(D) Confusion matrices:

Top:
	Muon	Electron
Muon	69.05%	30.95%
Electron	41.50%	58.50%

Bottom:
	Muon	Electron
Muon	76.70%	23.30%
Electron	54.50%	45.50%

True (vertical axis), Predicted (horizontal axis).