

FIGURE 5
COMPARATIVE PERFORMANCE METRICS

Metric	DETA vs CURRENT STATE-OF-THE-ART	IBM Heron	Google Willow	IonQ Forte
Latency	<10ms	>100ms	>100ms	>500ms
Error Rate	0.1-1%	0.5%	<0.1%	0.02%
Power	<1kW	25kW	30kW	15kW
Temperature	298K	15mK	20mK	77K
Throughput	10M/sec	10K/sec	5K/sec	1K/sec
Syndrome	50ns	1-10µs	63µs	100µs
Deployment	Standard Rack	Quantum Facility	Quantum Facility	Quantum Facility

Performance Improvement Factors	Threat Detection Accuracy
Speed: 100-1000×	DETA: 99.5% @ 10ms
Power: 25-30×	Classical: 95% @ 100ms
Deployment: Immediate vs Years	Traditional QC: 99.99% @ 1000ms
Cost: 100× lower	

KEY INSIGHT

99.5% accuracy in 10ms provides superior real-world protection compared to 99.99% accuracy in 1000ms

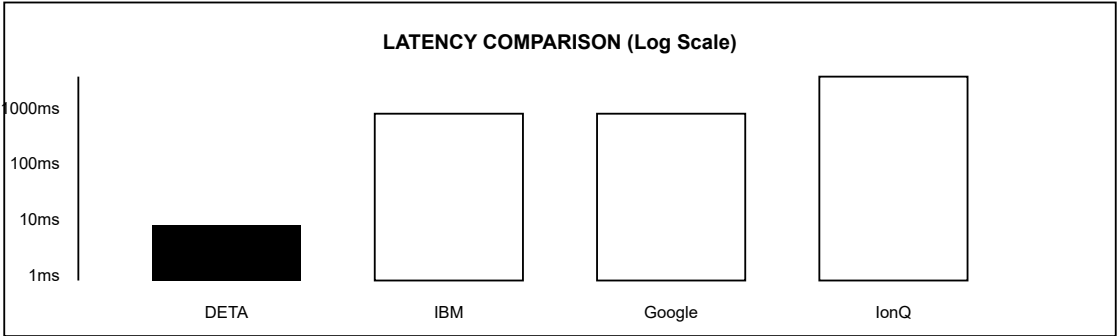


FIG. 5