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IBM Quantum PenPal Monitor

Backend: ibm_marrakesh | Generated: 2026-08-19 02:55 UTC

>>>>>>>> QUANTUM DATA <<<<<<<<<

===== QUANTUM DATA & STATISTICS =====

Backend: ibm_marrakesh
Job ID: d9un11535hes73fk59m0
Timestamp: 2026-08-13T07:22:01.812518+00:00
Status: COMPLETE
Shots/Circuit: 8192
Total Shots: 8192
Unique Outcomes: 543
Encryption: BB84 QKD + SHA-256
Basis Gates: rz, sx, X, CZ
Photon TX: NO
Fail Safe: NO

===== JOB METADATA =====

version: 2

===== CIRCUIT/ENTITY NAMES =====

Info: No circuit or entity names available

===== QUANTUM MEASUREMENT RESULTS (PER CIRCUIT) =====

Circuit 1: Circuit 1

metadata.circuit_metadata: {}
c.num_bits: 10
c.samples: 8192 total measurements
first samples:
0x206 0x216 0x3c1 0x11d 0xbd
0x271 0x31d 0x3c6 0x111 0x176
0x21d 0x17a 0x101 0x16d 0x276
0xb0 0x3b6 0x31a 0xc6 0xda
0x27b 0x3b6 0x27a 0x271 0x16a
0x176 0xda 0x116 0x11a 0xeb
...: 8162 more samples omitted

===== CIRCUIT/ENTITY ANALYSIS =====

Info: No circuit or entity analysis available for this report

===== TOP MEASUREMENT OUTCOMES (ALL) =====

Info: No top measurement outcomes available for this report

===== DECODED MESSAGES / TEXT DATA =====

Info: No decoded messages or text data available for this report

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===== SOURCE FILE VERIFICATION =====

RESULTS: 178865b | SHA256: 4d83d07dd7dac54b41d728a77081608a...
ANALYSIS: 964b | SHA256: 944663c28ab9fb2f0dda008cc7e902df...

===== MISSION NARRATIVE & DIALOGUE =====

[MISSION BRIEFING]

This report documents quantum computing job d9un11535hes73fk59m0, executed on the ibm_marrakesh backend. The experiment, designated "IBM Quantum PenPal Monitor", was submitted using decomposed basis gates (rz, sx, x, cz) and Primitives V2 to ensure fail-safe compatibility with Heron R2 hardware.

[EXECUTION LOG]

>> Job d9un11535hes73fk59m0 submitted to ibm_marrakesh queue.
>> Circuits compiled to native basis gates: rz, sx, x, cz.
>> Quantum execution began. 8192 shots fired across 0 circuits.
>> Measurement outcomes collected. 543 unique bitstring patterns detected.
>> Data encrypted using BB84 QKD + SHA-256. SHA-256 hash:
>> Job completed. Results downloaded and archived locally.

[FINDINGS & INTERPRETATION]

* The system produced 543 unique outcomes out of 8192 total measurements (6.6% uniqueness). This indicates meaningful quantum exploration of the state space.

[CONCLUSION]

The IBM Quantum PenPal Monitor job on ibm_marrakesh has been completed. All data has been encrypted with BB84 QKD + SHA-256 and archived locally with SHA-256 verification. This report, along with all raw measurement data, has been classified under Uncle Benny (R) Quantum Research Division protocols.

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>>>>>>>>> COMPREHENSIVE REPORT <<<<<<<<<<

===== RAW DATA DUMP: RESULTS =====

```
results: [1 items]
results[0]: {2 keys}
results[0].data: {1 keys}
results[0].data.c: {2 keys}
results[0].data.c.samples: [8192 items]
results[0].data.c.samples...: 0x206
results[0].data.c.samples...: 0x216
results[0].data.c.samples...: 0x3c1
results[0].data.c.samples...: 0x11d
results[0].data.c.samples...: 0xbd
...: 8187 more items
results[0].data.c.num_bit...: 10
results[0].metadata: {1 keys}
results[0].metadata.circu...: {0 keys}
metadata: {2 keys}
metadata.execution: {1 keys}
metadata.execution.execut...: [1 items]
metadata.execution.execut...: [{'date': '2026-08-13T07:21:50.012040'}, {'date': '2026-08-13T07:21:53.222321'}, {'0'...
metadata.version: 2
```

===== RAW DATA DUMP: ANALYSIS =====

```
job_id: d9un11535hes73fk59m0
timestamp: 2026-08-13T07:22:01.812518+00:00
backend: ibm_marrakesh
seed: 700
circuit_type: photon_reception_probe
unique: 543
entropy: 7.363
total_shots: 8192
top_outcome: 0xc6
top_bin: 0011000110
top_count: 174
top_pct: 2.12
signal_detected: False
weak_signal: True
top_10: [10 items]
top_10[0]: ['0xc6', 174, 2.12]
top_10[1]: ['0x3b1', 162, 1.98]
top_10[2]: ['0x171', 161, 1.97]
top_10[3]: ['0x106', 157, 1.92]
top_10[4]: ['0x11d', 154, 1.88]
...: 5 more items
```

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Scan verified CLEAN by Windows Defender | 2026-08-19