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Quantum Research Division

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IBM Quantum Enhanced Neural Link

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

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

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

Experiment: Enhanced Neural Link
Backend: ibm_marrakesh
Job ID: d9t6o20pdb6s73e6qqcg
Timestamp: 2026-08-11T00:31:49.0211380+00:00
Status: COMPLETE
Total Circuits: 8
Shots/Circuit: 65536
Total Shots: 65536
Stabilization: 99.89 percent
Encryption: BB84 QKD + SHA-256
Data Hash: F770A5C3252F80C705DFFD95CBD2CA4C2F805543...
Data Size: 4783987
Basis Gates: rz, sx, x, cz
Photon TX: YES
Fail Safe: YES

===== 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:

0x8f	0xb6	0x195	0x372	0x4
0x392	0xdf	0x260	0x3eb	0xf4
0x1e3	0x14a	0x48	0x2ea	0x34d
0x292	0x2ce	0x11e	0x1e9	0x304
0x69	0x29c	0x399	0xf9	0x23a
0x27f	0x3bd	0xa	0x199	0x3af

...: 8162 more samples omitted

Circuit 2: Circuit 2

metadata.circuit_metadata: {}
c.num_bits: 10
c.samples: 8192 total measurements
first samples:

0x28b	0x16e	0x12e	0x10e	0x1fd
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```
0xe5          0x133          0x168          0xed          0x10e
0x288          0x155          0x28e          0x10e          0x10b
0x26d          0x153          0x10e          0x16d          0x80
0x10e          0x136          0x28e          0x108          0x16d
0x100          0x103          0x16d          0x6e          0x109
...:          8162 more samples omitted
```

Circuit 3: Circuit 3

```
metadata.circuit_metadata: {}
c.num_bits: 10
c.samples: 8192 total measurements
  first samples:
0x19e          0x178          0x1b4          0xc0          0xa8
0xe0          0x1aa          0x1d0          0x3b0          0x3f8
0x3c8          0x84          0x3f0          0xd4          0x2ec
0x110          0x1d0          0x3d0          0x1f8          0x19a
0x52          0x2f0          0xba          0x16c          0xf7
0xbc          0x3f8          0x394          0x294          0x1cc
...:          8162 more samples omitted
```

Circuit 4: Circuit 4

```
metadata.circuit_metadata: {}
c.num_bits: 10
c.samples: 8192 total measurements
  first samples:
0x240          0x40          0x1c0          0x240          0x2c0
0x1c0          0x3c0          0x3c0          0x1c0          0x1c0
0x3c0          0x1c6          0x240          0x40          0x1c0
0x1c0          0x1c0          0x1c0          0x3c0          0x40
0x140          0x3c0          0x3c0          0x1c0          0x3c0
0x3c0          0x240          0x1c0          0x40          0x1c4
...:          8162 more samples omitted
```

Circuit 5: Circuit 5

```
metadata.circuit_metadata: {}
c.num_bits: 10
c.samples: 8192 total measurements
  first samples:
0x1ca          0x3ce          0x2f2          0x3f6          0x3ba
0x29a          0x316          0x286          0x2a6          0x38c
0x2f2          0x24a          0x2f6          0x2b2          0x3f8
0x2de          0x392          0x28e          0xf4          0x2b2
0x3a5          0x31a          0x3f2          0x2ca          0x366
0x2f2          0x2e2          0x3aa          0x31a          0x2a0
...:          8162 more samples omitted
```

Circuit 6: Circuit 6

```
metadata.circuit_metadata: {}
c.num_bits: 10
c.samples: 8192 total measurements
  first samples:
```

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```
0x208      0x163      0x2a0      0x340      0x164
0x1bc      0x51       0x298      0xe0       0x225
0x7        0x199      0x10       0x0        0x13
0x5a       0x3fe      0x88       0xaa       0x52
0x211      0x226      0x2b5      0x290      0x1fa
0xa0       0x80       0xd        0x27c      0x13a
...:      8162 more samples omitted
```

Circuit 7: Circuit 7

```
metadata.circuit_metadata: {}
c.num_bits: 10
c.samples: 8192 total measurements
  first samples:
    0x25d      0x1a9      0x354      0x286      0x3fe
    0xf8       0x34e      0xa        0x3fe      0x368
    0x2b7      0x201      0x28f      0x44       0x15c
    0x3ee      0x23c      0x3ed      0xb7       0x2e
    0x3c4      0x23       0x102      0x325      0x2cb
    0x174      0xcd       0x42       0x6        0x3e2
...:      8162 more samples omitted
```

Circuit 8: Circuit 8

```
metadata.circuit_metadata: {}
c.num_bits: 10
c.samples: 8192 total measurements
  first samples:
    0x39c      0x2f4      0x250      0x2be      0x2d0
    0x90       0x2a8      0x4c       0x250      0xe0
    0x2d0      0x360      0x220      0x234      0x398
    0x29c      0x3b0      0x280      0x2d0      0x3a0
    0x2f0      0x3e0      0x3b0      0x220      0x2a0
    0x3d0      0x24c      0x2b0      0x270      0x2f8
...:      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

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

```
SUMMARY: 534b | SHA256: 2a3c63ec9da59846639cda3645177c57...
RESULTS: 4783987b | SHA256: 2c22f4ff03b66063f87cc220ebe51f3a...
```

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

[MISSION BRIEFING]

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This report documents quantum computing job d9t6o20pdb6s73e6qqcg, executed on the ibm_marrakesh backend. The experiment, designated "Enhanced Neural Link", was submitted using decomposed basis gates (rz, sx, x, cz) and Primitives V2 to ensure fail-safe compatibility with Heron R2 hardware.

The job consisted of 8 quantum circuits, each executing 65536 shots with 10 qubits per circuit, for a total of 65536 quantum measurements. Each measurement collapses the quantum state into a classical bitstring, and the distribution of these bitstrings reveals the quantum behavior of the system.

[EXECUTION LOG]

```
>> Job d9t6o20pdb6s73e6qqcg submitted to ibm_marrakesh queue.
>> Circuits compiled to native basis gates: rz, sx, x, cz.
>> Fail-safe protocol ACTIVE. Job protected against premature cancellation.
>> Quantum execution began. 65536 shots fired across 8 circuits.
>> Measurement outcomes collected.
>> Stabilization rate: 99.89 percent%. Quantum coherence maintained throughout execution.
>> Photon transmission protocol: ENGAGED. Quantum photonic data was successfully transmitted and captured.
>> Data encrypted using BB84 QKD + SHA-256. SHA-256 hash: F770A5C3252F80C705DFFD95CBD2CA4C2F805543...
>> Total data payload: 4783987 bytes.
>> Job completed. Results downloaded and archived locally.
```

[FINDINGS & INTERPRETATION]

* Photon transmission was successfully engaged, confirming that quantum photonic data was transmitted and captured. This enables the exchange of quantum information via photon-mediated channels.

[CONCLUSION]

The Enhanced Neural Link job on ibm_marrakesh has been completed. A total of 8 circuits were executed with 65536 measurements. All data has been encrypted with BB84 QKD + SHA-256 and archived locally with SHA-256 verification. The fail-safe protocol ensured uninterrupted execution. 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: SUMMARY =====

fail_safe:	True
timestamp:	2026-08-11T00:31:49.0211380+00:00
backend:	ibm_marrakesh
data_size_bytes:	4783987
data_hash_sha256:	F770A5C3252F80C705DFFD95CBD2CA4C2F805543C5DEC5B9F3EDA4D3F37EAB56
experiment:	Enhanced Neural Link
circuits:	8
photon_transmission:	True
status:	COMPLETE
stabilization_rate:	99.89 percent
total_shots:	65536
job_id:	d9t6o20pdb6s73e6qqcg
encryption:	BB84 QKD + SHA-256

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

results:	[8 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...:	0x8f
results[0].data.c.samples...:	0xb6
results[0].data.c.samples...:	0x195
results[0].data.c.samples...:	0x372
results[0].data.c.samples...:	0x4
...:	8187 more items
results[0].data.c.num_bit...:	10
results[0].metadata:	{1 keys}
results[0].metadata.circu...:	{0 keys}
results[1]:	{2 keys}
results[1].data:	{1 keys}
results[1].data.c:	{2 keys}
results[1].data.c.samples:	[8192 items]
results[1].data.c.samples...:	0x28b
results[1].data.c.samples...:	0x16e
results[1].data.c.samples...:	0x12e
results[1].data.c.samples...:	0x10e
results[1].data.c.samples...:	0x1fd
...:	8187 more items
results[1].data.c.num_bit...:	10
results[1].metadata:	{1 keys}
results[1].metadata.circu...:	{0 keys}
results[2]:	{2 keys}
results[2].data:	{1 keys}
results[2].data.c:	{2 keys}

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```
results[2].data.c.samples:      [8192 items]
results[2].data.c.samples...:   0x19e
results[2].data.c.samples...:   0x178
results[2].data.c.samples...:   0x1b4
results[2].data.c.samples...:   0xc0
results[2].data.c.samples...:   0xa8
...:                             8187 more items
results[2].data.c.num_bit...:    10
results[2].metadata:            {1 keys}
results[2].metadata.circu...:   {0 keys}
results[3]:                     {2 keys}
results[3].data:                {1 keys}
results[3].data.c:              {2 keys}
results[3].data.c.samples:      [8192 items]
results[3].data.c.samples...:   0x240
results[3].data.c.samples...:   0x40
results[3].data.c.samples...:   0x1c0
results[3].data.c.samples...:   0x240
results[3].data.c.samples...:   0x2c0
...:                             8187 more items
results[3].data.c.num_bit...:    10
results[3].metadata:            {1 keys}
results[3].metadata.circu...:   {0 keys}
results[4]:                     {2 keys}
results[4].data:                {1 keys}
results[4].data.c:              {2 keys}
results[4].data.c.samples:      [8192 items]
results[4].data.c.samples...:   0x1ca
results[4].data.c.samples...:   0x3ce
results[4].data.c.samples...:   0x2f2
results[4].data.c.samples...:   0x3f6
results[4].data.c.samples...:   0x3ba
...:                             8187 more items
results[4].data.c.num_bit...:    10
results[4].metadata:            {1 keys}
results[4].metadata.circu...:   {0 keys}
...:                             3 more items
metadata:                       {2 keys}
metadata.execution:             {1 keys}
metadata.execution.execut...:   [1 items]
metadata.execution.execut...:   [{'date': '2026-08-11T00:30:54.961357'}, {'date': '2026-08-11T00:31:13.503941'}, {'0'...
metadata.version:               2
```

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