

SELECTION RESOLUTION REPORT

Selection 780301f2393e

Transaction	780301f2393e
Date of resolution	2026-09-04T14:31:13Z
Outcome space	2 canonical outcomes
Resolved picks	1
Resolution status	RESOLVED
Backend	QPU-EMERALD-54PQ · crystal-54 (iqm, superconducting)
Report generated	2026-09-04T14:31:17Z

This document is part of the transaction's permanent evidentiary record. Its commitment digests were published to independent channels before physical execution; verification instructions are in the technical appendix. EigenSelect provides a physical random selection mechanism and documentation of it, not legal certification of a draw.

ONE MEASUREMENT · ONE OF 2 STATES



THE SELECTION RESOLVED TO

Heads

Resolved by physical quantum measurement on 2026-09-04.



SECTION 1

Input and canonicalization

Selection mode	coin
Canonical outcomes	2
Picks requested	1
Transaction opened	2026-09-04T14:30:57Z

The full canonical outcome list is fixed by the digest below. The outcome list and the state → outcome mapping were both hashed into the commitment manifest before execution. Identical inputs canonicalize to identical digests.

SECTION 2

Commitment record

Manifest digest	sha256:7486c43b688b0b6b5cba8869448653669cf6040ef9d6912c29ff42233e3758dc
Outcome list	sha256:2800e44ca7e7450b1737bc1fca3090705a79b70986b581d9910f5fd238efdd3f
State → outcome mapping	sha256:e193ec36076c5bd8c1f2b7164cd118c4335ff5cd72577abea3534faedbc72282
Transpiled circuit (QASM)	sha256:dc059c36453d7bea6041690a778013c2e70264dafb6e3552578fc31a5f9473a3
Outcome space	2 outcomes on 1 qubit (2 basis states, 0 out of domain)
Shots per execution	1
Out-of-domain policy	retry-identical-circuit, max 42 attempts
Simulation fallback	prohibited
DNS pre-commitment	pre.780301f2393e.eigenselect.eu (both)
Nostr event (pre)	d5e8e31428ff3e9c19163d637e6e86f297b25af9d76075c951650e04f099134e
Relays acknowledging	wss://nos.lol, wss://relay.damus.io, wss://relay.primal.net
Committed at	2026-09-04T14:31:00Z

Execution log

#	MEASURED BITSTRING	DECODES TO	DISPOSITION	SUBMITTED	COMPLETED
1	0	0	ACCEPTED (in domain)	2026-09-04T14:31:03	2026-09-04T14:31:12

Out-of-domain measurements are expected results of the rejection-sampling design; the ideal circuit assigns them probability 0.0000. They are not evidence of hardware failure. Every physical execution is recorded; nothing is discarded.

Resolution

Accepted measurement	0 → 0
Resolved outcome	Heads
Resolution digest	sha256:00cb547d00036dc9c6117447a47bc7f9133fef58cf933774897c776cc0ddecfb
DNS post-resolution	post.780301f2393e.eigenselect.eu (both)
Nostr event (post)	b2954dfb11f3f84eec36fadd8b516de34610f0e21499f7c01ffc118686df9c2
Relays acknowledging	wss://nos.lol, wss://relay.primal.net
Resolved at	2026-09-04T14:31:13Z

APPENDIX A

Circuit specification

The selection circuit prepares a uniform superposition over 2 basis states and measures once. The processor's native gate set contains no Hadamard gate, so the circuit that physically ran is the native decomposition: 2 r gates, depth 3 (no two-qubit gates). The commitment covers that decomposed circuit, not the logical one.

It is printed here in full. Hashing these bytes gives the digest that was bound into the commitment manifest before the processor was contacted, so this listing is the evidence, not a description of it. A PDF cannot promise that a copied listing survives with its whitespace intact, and the digest is taken over exact bytes, so the same circuit is served verbatim at the URL below.

Transpiled circuit, as executed

```
OPENQASM 3.0;
include "stdgates.inc";
gate r(p0, p1) _gate_q_0 {
  U(p0, -pi/2 + p1, pi/2 - p1) _gate_q_0;
}
bit[1] c;
qubit[1] q;
r(pi/2, pi/2) q[0];
r(pi, 0) q[0];
c[0] = measure q[0];
```

sha256 dc059c36453d7bea6041690a778013c2e70264dafb6e3552578fc31a5f9473a3

Served at <https://eigenselect.com/verify/780301f2393e/1/circuit.qasm>

Ideal measurement distribution

BASIS STATE	DECODES TO	IDEAL PROBABILITY	DOMAIN
0	0	0.5000	in domain
1	1	0.5000	in domain

Physical hardware deviates from the ideal distribution through gate error, readout error, and decoherence. EigenSelect does not claim the physical distribution is perfectly uniform. It claims the measurement physically occurred as committed, and documents it. See Appendix C.

APPENDIX B

Verification instructions

The commitment records for this transaction are publicly queryable. They were published before the processor was contacted. From any terminal, through any resolver:

```
dig TXT pre.780301f2393e.eigenselect.eu +short
dig TXT post.780301f2393e.eigenselect.eu +short
```

Each record carries a digest in its `h=` field. That digest covers the commitment manifest, which is served in its exact canonical form at the URL below. Hash it and compare: the two must agree, and the record predates the execution.

```
curl -s https://eigenselect.com/verify/780301f2393e/1/manifest.json | shasum -a 256
curl -s https://eigenselect.com/verify/780301f2393e/1/circuit.qasm | shasum -a 256
```

The manifest in turn commits to the circuit by hash, and that circuit is the listing in Appendix A. Hashing the served circuit reproduces `circuit.qasm_sha256` inside the manifest. The chain closes without our cooperation at any step: DNS holds the digest, the manifest reproduces it, and the circuit reproduces the manifest's. Query any listed relay for the event IDs above; the event content reproduces the committed digest string verbatim.

The zone `eigenselect.eu` is served by `ns1.eigenselect.com` (Amsterdam) and `ns2.eigenselect.com` (Warsaw), operated by EigenSelect, and is DNSSEC-signed. The `.eu` registry delegates the zone to those nameservers and publishes the DS record for its key, so a validating resolver checks every signature; run a query without `+short` to see the ad flag, or append `@ns1.eigenselect.com` to ask an authoritative server directly. `ns1` is dual-stack; `ns2` has answered on IPv6 only since 16 August 2026, when its IPv4 address was released. Both addresses were procured in July on our inference that the `.eu` registry required them; the requirement was ours, not the registry's, and the one that remains is held under protest. A resolver without IPv6 reaches the zone through `ns1`.

APPENDIX C

Scope and limitations of this record

This report is precise about what it demonstrates. It also enumerates what it cannot demonstrate, because an evidentiary document that overstates its own scope is a weaker document:

1. EigenSelect cannot independently demonstrate that the provider's backend metadata is truthful, nor that the reported measurement originated from the stated physical device.
2. The physical output distribution is not perfectly uniform; hardware noise biases it in ways characterized by the provider, not by us.
3. Public Nostr relays are under no obligation to retain an event indefinitely.
4. A DNS record's internal timestamp does not independently establish when it was first published. DNSSEC signatures are made with keys held by the operator; they protect against third-party tampering in transit, not against the operator.
5. Both nameservers carried IPv4 addresses, procured in stages in July on our own inference that the `.eu` registry required them. The registry publishes no such requirement; the delegation failures were in the registrar's connection to it, and recurred with zero, one or two addresses alike, until a registrar transfer on 15 August 2026 completed the delegation with the same two nameservers. `ns2`'s address was released on 16 August 2026. The one that remains, on `ns1`, costs EUR 3.65 per month, 4.6 times the nameserver it fronts (EUR 0.79 per month, compute and storage). The founding position was zero addresses, and it was abandoned on a reading of ours, not on a rule of the registry's. A resolver without IPv6 connectivity reaches `ns1` alone; both nodes serve identical, identically signed records.
6. This document is not legal certification of a draw. Regulatory compliance remains the customer's responsibility.
7. The entire verification chain ultimately rests on trusting Scaleway.

INFRASTRUCTURE PROVENANCE

Quantum hardware : IQM Crystal-54, 15 mK cryogenic environment
Execution cost : €0.2514 direct QPU (1 physical execution)
IPv4 allocation : 1 address (held under protest)
Legacy spend ratio : 4.6x the nameserver it fronts

VERIFICATION VECTOR

Status : WAVEFUNCTION COLLAPSED SUCCESSFULLY
Timeline lock : Solidified in Current Everettian Macroscopic Branch

EigenSelect · eigenselect.com · Report generated 2026-09-04T14:31:17Z · This document and its published commitment records constitute the complete evidentiary chain for transaction 780301f2393e.