```
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>OBSIDIAN SHIFT // SEC REF: 17684-273-411-436</title>
<link
href="https://fonts.googleapis.com/css2?family=Cormorant+Garamond:ital,wght@0,600;1,600&f
amily=Inter:wght@300;400;700&family=JetBrains+Mono:wght@400;700&display=swap"
rel="stylesheet">
<script src="https://cdn.jsdelivr.net/npm/mathjax@3/es5/tex-chtml.js" defer></script>
<style>
/*
═══════════════════════════════════════════════════════════════════════════
═══════
   ALBERT LANE · Q-FUNCTION: CRITICAL MASS EDITION v11.0
   Status: HIGH-FIDELITY FORENSIC INTERFACE

═══════════════════════════════════════════════════════════════════════════
═══════ */
:root {
  --bg-obsidian: #010204;
  --bg-panel: #05080E;
  --hilbert-blue: #38BDF8;
  --hilbert-glow: rgba(56, 189, 248, 0.4);
  --audit-amber: #F59E0B;
  --alert-red: #EF4444;
  --text-main: #CBD5E1;
  --text-header: #F8FAFC;
  --font-math: 'JetBrains Mono', monospace;
  --font-serif: 'Cormorant Garamond', serif;
}

* { box-sizing: border-box; margin: 0; padding: 0; }
body {
  background-color: var(--bg-obsidian);
  color: var(--text-main);
  font-family: 'Inter', sans-serif;
  line-height: 1.618;
  padding: 5vh 2vw;
  overflow-x: hidden;
}

/* -- SCANLINE EFFECT -- */
```

```
body::after {
  content: " ";
  position: fixed; top: 0; left: 0; width: 100%; height: 100%;
  background: linear-gradient(rgba(18, 16, 16, 0) 50%, rgba(0, 0, 0, 0.25) 50%),
linear-gradient(90deg, rgba(255, 0, 0, 0.06), rgba(0, 255, 0, 0.02), rgba(0, 0, 255, 0.06));
  z-index: 9999; background-size: 100% 2px, 3px 100%;
  pointer-events: none; opacity: 0.3;
}

.case-wrapper {
  max-width: 960px;
  margin: 0 auto;
  border: 1px solid rgba(56, 189, 248, 0.15);
  background: var(--bg-panel);
  box-shadow: 0 0 100px rgba(0, 0, 0, 1);
  position: relative;
}

/* -- PROBABILITY WAVE HEADER -- */
.q-header {
  padding: 5rem 4rem;
  border-bottom: 1px solid rgba(56, 189, 248, 0.2);
  background: linear-gradient(180deg, rgba(56, 189, 248, 0.05) 0%, transparent 100%);
  position: relative;
}

.q-header::before {
  content: "HILBERT SPACE ACTIVE";
  position: absolute; top: 1rem; right: 2rem;
  font-family: var(--font-math); font-size: 9px; color: var(--hilbert-blue);
  letter-spacing: 0.5em; opacity: 0.5;
}

.title-q {
  font-family: var(--font-serif);
  font-size: 4.2rem;
  font-weight: 600;
  color: var(--text-header);
  line-height: 0.9;
  text-shadow: 0 0 20px var(--hilbert-glow);
}

/* -- METADATA MATRIX -- */
.metadata-grid {
```

```
  display: grid;
  grid-template-columns: repeat(4, 1fr);
  margin-top: 4rem;
  border-top: 1px solid rgba(56, 189, 248, 0.1);
}

.m-cell {
  padding: 1.5rem;
  border-right: 1px solid rgba(56, 189, 248, 0.1);
  font-family: var(--font-math);
  font-size: 11px;
}
.m-cell:last-child { border-right: none; }
.m-label { color: var(--hilbert-blue); text-transform: uppercase; display: block; margin-bottom:
0.5rem; }

/* -- STATE COLLAPSE CONTENT -- */
.content-area { padding: 4rem; }

h2 {
  font-family: var(--font-math);
  font-size: 0.7rem;
  text-transform: uppercase;
  color: var(--hilbert-blue);
  letter-spacing: 0.4em;
  margin: 6rem 0 2rem 0;
  display: flex; align-items: center;
}
h2::after { content: ""; flex: 1; height: 1px; background: rgba(56, 189, 248, 0.2); margin-left:
2rem; }

.math-focus {
  background: rgba(0,0,0,0.4);
  border: 1px solid rgba(56, 189, 248, 0.1);
  padding: 3rem;
  margin: 3rem 0;
  border-radius: 2px;
  position: relative;
}

.math-focus::before {
  content: "TRANSACTION AMPLITUDE";
  position: absolute; top: -10px; left: 20px;
  background: var(--bg-panel); padding: 0 10px;
```

```
  font-family: var(--font-math); font-size: 9px; color: var(--audit-amber);
}

/* -- OBSERVATION TRIGGER -- */
.observation-node {
  border-left: 4px solid var(--audit-amber);
  background: rgba(245, 158, 11, 0.03);
  padding: 2.5rem;
  margin: 4rem 0;
  transition: all 0.4s cubic-bezier(0.16, 1, 0.3, 1);
  cursor: crosshair;
}

.observation-node:hover {
  background: rgba(56, 189, 248, 0.08);
  border-left-color: var(--hilbert-blue);
  transform: translateX(10px);
  box-shadow: -20px 0 40px rgba(56, 189, 248, 0.05);
}

/* -- CITATION LEDGER -- */
.citations {
  padding: 4rem;
  background: rgba(0,0,0,0.3);
  border-top: 1px solid rgba(56, 189, 248, 0.1);
}

.cite-line {
  display: flex; justify-content: space-between;
  padding: 1rem 0; border-bottom: 1px solid rgba(56, 189, 248, 0.05);
  font-family: var(--font-math); font-size: 11px;
}
.cite-tag { color: var(--hilbert-blue); font-weight: bold; }
.cite-link { color: var(--text-main); opacity: 0.4; text-decoration: none; max-width: 400px;
overflow: hidden; text-overflow: ellipsis; white-space: nowrap; }
.cite-link:hover { opacity: 1; color: var(--hilbert-blue); }

</style>
</head>
<body>

<div class="case-wrapper">
  <header class="q-header">
    <h1 class="title-q">Quantum Fidelity & Non-Local Correlations</h1>
```

Forensic Investigation into the Overlap Integral and its Macroscopic Isomorphisms.

StateOBSERVED
AuditorALBERT LANE
Vector0x8F9B2A4C
SEC REF17684-273-411-436

</header>

<h2>01 // Abstract</h2>
[span_4](start_span) The mathematical architecture of quantum mechanics provides a non-classical framework for quantifying state similarity[span_4](end_span). [span_5](start_span)At the core of this formalism lies the overlap integral, which determines probability transition amplitudes and governs the interference of probability waves[span_5](end_span). [span_6](start_span)This investigation analyzes the Einstein-Podolsky-Rosen (EPR) paradox and its direct resonance in large-scale socio-technical systems, specifically within deterministic digital platform architectures[span_6](end_span).

$$S = \langle\psi_1|\psi_2\rangle = \int_{-\infty}^{+\infty} \psi_1^*(x)\,\psi_2(x)\, dx$$

<h2>02 // Continuous Variable Entanglement</h2>
[span_7](start_span) In classical Hamiltonian mechanics, systems are defined by independent variables[span_7](end_span). [span_8](start_span)However, quantum theory encapsulates isolated physical systems within a complex-valued wave function $|\psi\rangle$ residing in Hilbert space[span_8](end_span). [span_9](start_span)The EPR paradox highlights that spatially separated systems can exhibit instantaneous state dependence, a reality verified by the violation of Bell's inequalities[span_9](end_span).

Observation Trigger: Algorithmic Regulatory Capture
This quantum non-locality is mirrored in Algorithmic Regulatory Capture. [span_10](start_span)For instance, the Government AI Navigator, funded by Google.org, serves as a recursive influence loop where the corporation funds the curriculum for its own regulators[span_10](end_span). [span_11](start_span)This capture is shielded by the

Authoritative Control Cone, which utilizes "Absorption" to neutralize adversarial inquiry[span_11](end_span).

<h2>03 // Macroscopic Analogues: The Phoenix Event</h2>
[span_12](start_span) Macro-studies identify the "Phoenix Event" as a macroscopic equivalent of quantum teleportation[span_12](end_span). [span_13](start_span)Commercial value is extracted from a defunct legacy entity and instantaneously teleported into a clean shell entity while liabilities are isolated in a dead container[span_13](end_span). [span_14](start_span)This is verified by specific Platform Tag Management System nodes, such as GTM-5L9N8H[span_14](end_span).

$$F(\rho, \sigma) = \left(\text{Tr}\sqrt{\sqrt{\rho}\,\sigma\,\sqrt{\rho}}\right)^2$$

<h2>04 // The Technical Siege</h2>
Access to the ground truth is often restricted by hard-coded technical barriers. [span_15](start_span)The USMCA Article 19.16 provision legally engineers algorithmic opacity, prohibiting governments from requiring the disclosure of source code[span_15](end_span). [span_16](start_span)In practice, this manifests as network traces consistently terminating at the Google gateway IP 72.14.232.1[span_16](end_span).

Alert: Material Fabrication Uncovered
[span_17](start_span) The audit of Apolitical Group Limited revealed a fabrication of the Whitehall headquarters at 1 Horse Guards Avenue[span_17](end_span). [span_18](start_span)This prestige marker is a "Technical Authority Role-Play" designed to simulate institutional proximity that does not exist in reality[span_18](end_span).

<footer class="citations">
SOURCE LEDGER // DECRYPTED

[1]

Forensic Audit: Authoritative Control Cone
SEC/Audit_17684/Apolitical_Case_Study.html

[2]
Quantum Fidelity & Macroscopic Analogues
Hilbert_Space_Forensics_v1.0.pdf

[65]
USMCA Digital Trade FOIA Documents
<a
href="https://www.uschamber.com/assets/documents/USTR-FOIA-Digital-Trade-Redacted-Documents.pdf" class="cite-url">uschamber.com/assets/USTR-FOIA-Digital-Trade.pdf

[67]
USMCA Letter to Greer (Jayapal, 2025)
<a
href="https://jayapal.house.gov/wp-content/uploads/2025/11/USMCA-Jayapal-Letter-Final.pdf"
class="cite-url">jayapal.house.gov/USMCA-Jayapal-Letter-Final.pdf

AUTH: ALBERT LANE
HILBERT STATE: COLLAPSED
SEC REF: 17684-273-411-436

</footer>

</body>
</html>