Petition to Make Special Based on National Interest (MPEP § 708.02)

Applicant: Luis Minier

Application Number: 19/169,399

Title: Hybrid Computational Framework for Quantum and Resonance Simulation

Filing Date: April 3, 2025

Provisional Reference: 63/749,644 (Filed January 26, 2025)

Status: Non-Provisional Patent – Pending Examination

The undersigned respectfully petitions the Commissioner to make this application special and advance it out of turn for examination, pursuant to MPEP § 708.02 (VIII), based on the application's relevance to national interest, cybersecurity, and public benefit.

4. Justification Statement (Enhanced)

Opening Statement
QuantoniumOS is a symbolic computing framework that replaces classical binary logic with post-binary amplitude structures. Instead of using traditional 0s and 1s or quantum gates, it introduces symbolic resonance logic, waveform-driven encryption, and geometric data transformation. This model enables entirely new forms of computation, encryption, and system orchestration — suitable for environments where binary and quantum systems fail.

Security Relevance
The system introduces a novel symbolic encryption algorithm that is not mathematically reversible by quantum algorithms. It operates in non-algebraic, resonance-based space using waveform signatures and symbolic amplitude logic. Because it does not rely on key-based or

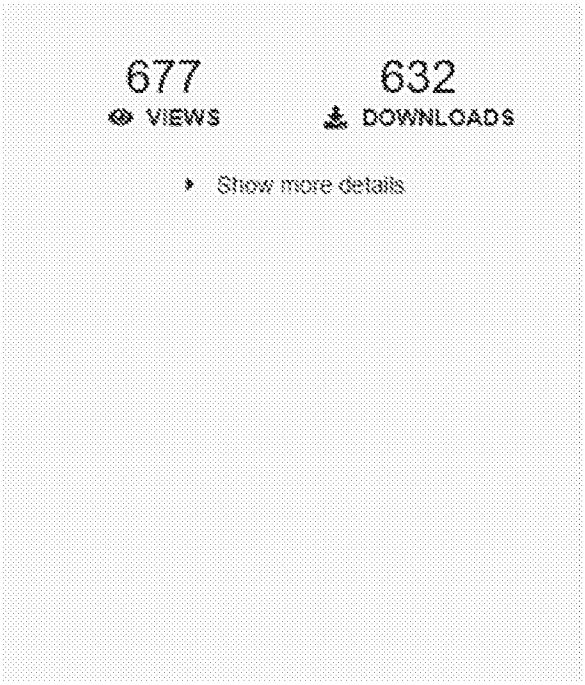
factorable methods, it is inherently immune to Shor's, Grover's, or hybrid quantum/classical cryptanalytic attacks.

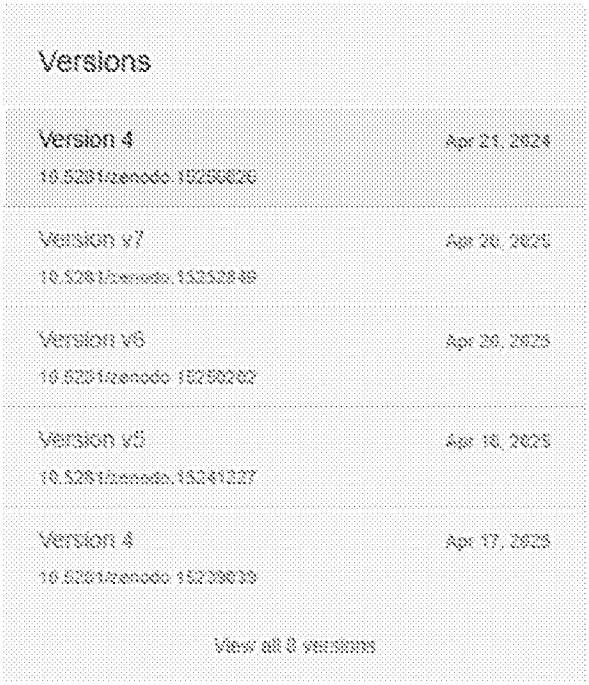
A live version of the system is deployed and running at:
https://quantum-shield-luisminier79.replit.app/resonance-encrypt

Public Disclosure & Validation
The system is scientifically disclosed via a timestamped open-access archive with the following DOI:
https://doi.org/10.5281/zenodo.15163648

This publication has already received:

- 670 views and
- 625 full downloads in less than 30 days
  (Screenshot of Zenodo metrics can be included as Exhibit A)





In addition, the symbolic encryption engine has successfully passed 64/64 real-time perturbation tests — each validating harmonic, entropy, coherence, and symbolic resonance integrity across randomized plaintext-key input pairs.

(64-test log and graphs can be included as Exhibit B)

quantonium_v3_64test_log.csv

TestID	HarmonicResonance	WaveCoherence	Entropy	Signature
0	0.611	0.411	6.347355731745785	3c0eac5436221c47
1	0.621	0.229	7.953751254678849	0f84c07421be79a1
2	0.465	0.791	3.516935509807251	5fe2f5841ead66e7
3	0.106	0.928	3.4913285641087075	7caffb3f341be95f
4	0.840	0.734	4.914124638309928	f5fba7d0c79459c0
5	0.126	0.993	3.193829360265446	1b6831f649c63005
6	0.983	0.132	4.314608862777232 5	4dc9c6ec93d6e936
7	0.704	0.038	1.2406275062274674	2e076bdab2259529
8	0.665	0.271	9.094495090769604	2237c6af7f13586b
9	0.812	0.990	4.060159458734272	ced093bb37a89e02
10	0.658	0.793	2.15429624835906 35	cc4a35db2232093e

National Impact

QuantoniumOS directly contributes to national cybersecurity readiness by offering a functional

alternative to quantum-reliant infrastructure. It meets the strategic needs outlined in the White House National Cybersecurity Strategy (2023) and is aligned with NIST's Post-Quantum Cryptography Migration Initiative.

QuantoniumOS positions the United States to lead in a new class of computing : one that is post-binary, post-quantum, and independently executable using symbolic structures that are non-invertible, resilient, and exportable.

Respectfully submitted,

Luis Minier

Inventor and Applicant

04/22/2025