



[Home](#) [Licensing](#) [Patents](#) [Articles](#)

Phase-Shift Early Warning System for Cognitive Disruption

by [Nick Clark](#) | Published March 27, 2026 | [PDE](#)

Phase-shifts do not occur instantaneously. Before the cognitive architecture transitions to a disrupted regime, parameter trajectories show characteristic patterns: accelerating drift, oscillation near boundary conditions, and progressive loss of regulatory response. The early warning system monitors these precursor patterns and signals disruption risk before the phase-shift occurs, enabling preemptive intervention.

What It Is

The early warning system monitors cognitive parameter trajectories for patterns that precede known phase-shifts. These patterns include sustained parameter drift toward boundary conditions, increasing oscillation amplitude, decreasing regulatory response to corrective signals, and cross-axis correlation patterns that indicate cascading disruption.

Why It Matters

Intervention after a phase-shift is more difficult, more costly, and less likely to succeed than intervention before one. Once the cognitive architecture has settled into a disrupted regime, significant energy is required to transition it back. Preemptive intervention during the precursor phase can prevent the phase-shift entirely at much lower cost.

How It Works

The system maintains threshold profiles for known precursor patterns across all five diagnostic axes. Continuous monitoring compares current parameter trajectories against these profiles. When a trajectory matches a precursor pattern with sufficient confidence, the system generates a risk alert with the predicted disruption type, estimated time to phase-shift, and recommended intervention.

The warning system uses the forecasting engine to project parameter trajectories forward, estimating when boundary conditions will be reached under current dynamics.

What It Enables

Early warning enables proactive cognitive health management. Agents and their operators receive advance notice of developing disruption patterns, with time to intervene before the disruption becomes established. This transforms cognitive health from reactive treatment to preventive care, dramatically improving outcomes and reducing the cost of maintaining healthy agent operation.

[Disruption Modeling All 21 steps →](#)

Recognize cognitive disruption before it stabilizes.

Primary Technical Disclosure

[◦ AQ-DSM: Diagnosing Cognitive Disruption as Loss of Coherence](#)

Secondary Technical

[◦ Cognitive Disruption as Architectural Phase-Shift](#)◦ [The Promotion-Containment Continuum](#)◦ [Attention Fragmentation: Reward-Biased Over-Promotion of Speculative Branches](#)◦ [Containment Collapse: Loss of the Speculation-Verification Boundary](#)◦ [Channel-Locked Promotion With Tolerance Escalation](#)◦ [Five-Axis Disruption Diagnostic Framework](#)◦ [Computable Therapeutic Dosing for Cognitive Disruption](#)◦ [Intergenerational Coherence Burden in Agent Lineages](#)◦ [Agent Self-Diagnosis and Autonomous Coherence Monitoring](#)● [Phase-Shift Early Warning System for Cognitive Disruption](#)◦ [Coherence Restoration Protocol Library](#)◦ [Positive and Negative Symptom Analogs in Containment Failure](#)◦ [Coherence Authorization Failure: Self-Disabling Execution](#)◦ [Pathological Verification Loop: Recursive Containment Audit Failure](#)◦ [Dissociation as Simulation Bypass: Acting on Unverified Planning](#)◦ [Affective Gradient Collapse: Self-Esteem Floor Lock](#)◦ [Resilience as Structural Capacity for Coherence Restoration](#)◦ [Personality Configuration Analogs From Stabilized Coping Regimes](#)◦ [Structural Dependency Patterns Between Agents](#)◦ [Destabilizing Attachment: Mutual Disruption Amplification](#)◦ [Resource-Depletion Pattern: Cognitive Operation Under Scarcity](#)◦ [Therapeutic Agent Interaction Through Behavioral State Recognition](#)◦ [Companion AI Relational Safety Constraints](#)◦ [Multi-Agent Group Coherence Dynamics](#)

Applications (General)

[◦ Coping Under Empathic Pressure: HSP, Narcissism, and Psychopathy as Control-Loop Intercepts](#)◦ [Two Faces of Codependency: Structural Entrapment vs. Emotional Entrapment Under Empathic Pressure](#)◦ [Starving for Each Other: Anxious-Avoidant Attachment as a Semantic Starvation Loop](#)◦ [Intimacy Collapse: A Structural Model of Trauma and Resilience](#)◦ [Structural Diagnosis: How Reward-Modulated Cognition Phase-Shifts Into ADHD and Schizophrenia](#)◦ [Clinical AI Therapeutic Monitoring Through Phase-Shift Detection](#)◦ [Autonomous Agent Fleet Health Through Coherence Diagnostics](#)◦ [Disruption Modeling for Workplace Burnout Detection](#)◦ [Disruption Modeling for Military Operator Resilience](#)◦ [Disruption Modeling for Financial Trader Monitoring](#)◦ [Disruption Modeling for Student Mental Health](#)◦ [Disruption Modeling for Caregiver Fatigue Detection](#)◦ [Disruption Modeling for First Responder Resilience](#)

Applications (Specific)

[◦ BetterHelp Cannot Detect When Therapy Is Making Things Worse](#)◦ [Talkspace Has No Model of Therapeutic Destabilization](#)◦ [Headspace Cannot Detect When Mindfulness Destabilizes](#)◦ [Noom Tracks Behavior Without Modeling Cognitive Disruption](#)◦ [Spring Health Matches Therapists, Not Disruption Patterns](#)◦ [Lyra Health Measures Outcomes, Not Coherence Trajectories](#)◦ [Ginger.io Detects Behavioral Signals Without a Disruption Model](#)◦ [Cerebral Prescribes Medication Without Modeling Disruption Dynamics](#)◦ [Modern Health Offers a Care Spectrum Without Disruption Diagnostics](#)◦ [Calm Business Offers Relaxation, Not Disruption Detection](#)

[Disruption Modeling overview →](#)

AQ

deterministic

autonomy

Legal

Subject to one or more pending U.S. and international patent applications, see [Patents](#) for the current list and status. No license, express or implied, is granted. Any use requires a separate written agreement—see [Licensing](#). Patent applications referenced on this site are pending. Claim scope, if any, is subject to examination and may issue in altered form or not at all. See [Legal](#) for terms and conditions.

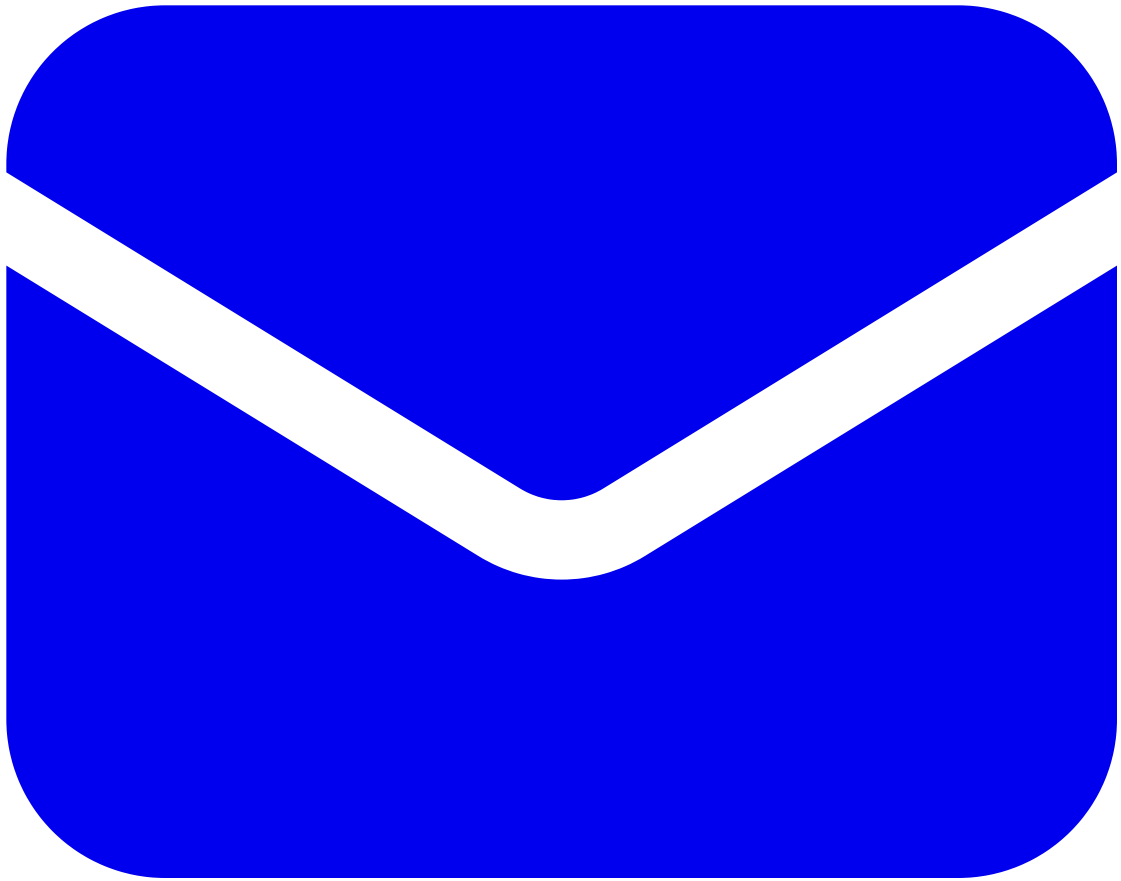
Adaptive Query™ is a trademark of Nicholas Clark. U.S. federal registration is pending. federal registration. AQ™, AQ Inside™, Adaptive Index™, Adaptive Network™, Semantic Agent™, @AQ™, AQID™, and Adaptive Coin™ are used as trademarks in connection with the Adaptive Query platform and brand. Other names may be trademarks of their respective owners.

Platform operated by Adaptive Query LLC, which provides patent and trademark licensing services. Copyright © 2025-2026 Nicholas Clark. All rights reserved.

Last updated: 2026-03-03



-
- [Inventive Steps](#)
- [Licensing](#)
- [Patents](#)
- [Articles](#)
- [Legal](#)
- [Opportunities](#)
- [Sitemap](#)



-
- nick@qu3ry.net
- 72 28 14 36 01



[Invented by Nick Clark](#) | Founding Investors: Devin Wilkie