

OOF Complete Variable Nomenclature

Systematic Naming for 1109+ Variables - LLM-Optimized

Design Principles:

1. Minimal disambiguation - only fix collisions
2. Natural English for compound concepts
3. Database-friendly (underscores, not dots)
4. Token-efficient (short where clear)
5. Mathematical convention-compatible
6. Type-indicated suffixes (_score, _rate, _level, _prob, _strength)

PART 1: COLLISION RESOLUTION (7 Critical Variables)

The 7 Namespace Collisions - MANDATORY Disambiguation

OLD → NEW (with context)	
=====	
M → M_maya	(illusion/veiling operator)
M → M_manifest	(manifestation from UCB)
M → M_mind	(mind cascade layer)
S → S_sacred	(Sacred Chain S1-S8 level)
S → S_struct	(structure from UCB)
S → S_self	(self cascade layer)
E → E_energy	(energy from UCB)
E → E_ego	(ego cascade layer)
E → E_emerge	(emergence properties)
A → A_aware	(awareness from UCB)
A → A_action	(action from embodying pathway)
C → C_base	(consciousness^consciousness = Ψ^Ψ)
C → C_creator	(creator consciousness exponent)
C → C_cultural	(cultural/collective level)
P → P_presence	(presence from UCB)
P → P_prana	(prana/breath cascade layer)
P → P_prob	(probability calculations)
P → P_power	(power transformation matrix)
L → L_love	(love from UCB)
L → L_liberate	(liberation component in freedom drive)
L → L_level	(level/layer indicators)

All other variables keep their current names unchanged.

PART 2: THE 25 CORE OPERATORS (Tier 1)

Base Operators - Keep Abbreviated

CATEGORY: UCB (8 Operators)
=====

P_presence	Pure presence, now-moment awareness
A_aware	Awareness, self-observation capacity
E_energy	Vitality, life force, available energy
Ψ_{base}	Base consciousness ($\Psi^{\wedge}\Psi$ = consciousness operating on itself)
M_manifest	Manifestation power, reality creation
L_love	Love field strength, heart connection
G_grace	Grace, divine flow, surrender receptivity
S_struct	Structure, organizational coherence

CATEGORY: Distortion Operators (3 Main)
=====

M_maya	Maya, illusion, reality distortion
At	Attachment, ego identification, clinging
W	Witness, objective seeing, non-identification

CATEGORY: Pattern Operators (5)
=====

Hf	Habitual Fixation, repetitive patterns
K	Karma, stored action-consequence patterns
Shadow	Unconscious rejected aspects
Se	Seeking, external validation dependency
Ce	Cleanliness, purity of consciousness

CATEGORY: Structural Operators (4)
=====

I	Intention, directed will
T	Time, temporal focus (past/future/present)
V	Void, emptiness, pre-manifestation space
C_base	Base consciousness power ($\Psi^{\wedge}\Psi$)

CATEGORY: Action Operators (5)
=====

Choice	Decision-making capacity
Agency	Self-directed action capability
Resistance	Opposition to flow/change
Openness	Receptivity to new experiences
Surrender	Letting go, non-control

Total: 25 base operators

Naming rule: Keep all these exactly as shown above

PART 3: CONSCIOUSNESS COORDINATES (180+ Variables)

Sacred Chain (S1-S8 System)

SACRED CHAIN CORE
=====

S_sacred_level	Current consciousness level (1-8)
S_sacred_transition_rate	dS/dt evolution speed
S_sacred_threshold	Minimum level for breakthrough

LEVEL DEFINITIONS (8 States)

```

=====
S1_survival          Fear-based survival consciousness
S2_seeking           Desire-driven seeking consciousness
S3_achievement       Ego-centered achievement consciousness
S4_service            Heart-opening service consciousness
S5_surrender          Grace-receiving surrender consciousness
S6_witness            Awareness-being witness consciousness
S7_wisdom             Integrated knowing wisdom consciousness
S8_unity              Transcendent unity consciousness

TRANSITION COEFFICIENTS
=====
coeff Awareness coefficient for awareness contribution
coeff Practice coefficient for practice contribution
coeff Grace coefficient for grace contribution
coeff Resistance coefficient for resistance drag

FORMULAS USING THESE
=====
S_sacred_transition_rate = (coeff Awareness * A_aware) +
                           (coeff Practice * Practice_Intensity) +
                           (coeff Grace * G_grace) -
                           (coeff Resistance * Resistance)

```

Three Perfection Pathways (9 Dimensions)

```

WITNESSING PATHWAY (3 Dimensions)
=====
pathway_witness_observation     Observation capacity (0.0-1.0)
pathway_witness_perception      Perception clarity (0.0-1.0)
pathway_witness_expression      Expression authenticity (0.0-1.0)

CREATING PATHWAY (3 Dimensions)
=====
pathway_create_intention        Intention strength (0.0-1.0)
pathway_create_attention         Attention focus (0.0-1.0)
pathway_create_manifestation    Manifestation power (0.0-1.0)

EMBODYING PATHWAY (3 Dimensions)
=====
pathway_embody_thoughts        Thought alignment (0.0-1.0)
pathway_embody_words            Word integrity (0.0-1.0)
pathway_embody_actions          Action consistency (0.0-1.0)

```

Five Sacred Drives (100+ Variables)

Each drive has 4 core properties + multiple components:

```

LOVE DRIVE STRUCTURE
=====
drive_love_internal_pct        Internal seeking % (0-100)
drive_love_external_pct         External seeking % (0-100)
drive_love_strength             Overall drive strength (0.0-1.0)
drive_love_fulfillment          Current fulfillment level (0.0-1.0)

LOVE INTERNAL COMPONENTS (Flat naming - Option A)
=====
Love_Internal_Heart_Open        Heart openness component
Love_Internal_Self_Love          Self-love component
Love_Internal_Unconditional      Unconditional capacity component

HEART OPENNESS SUB-COMPONENTS
=====
```

Heart_Open_Ego_Separation Ego separation factor
 Heart_Open_Emotional_Avail Emotional availability factor
 Heart_Open_Vulnerability Vulnerability openness factor

SELF LOVE SUB-COMPONENTS
 =====
 Self_Love_Witness Witnessing component
 Self_Love_Shadow_Projection Shadow projection factor
 Self_Love_Acceptance Self-acceptance factor

UNCONDITIONAL SUB-COMPONENTS
 =====
 Unconditional_Raga Attachment to pleasure (inverse)
 Unconditional_Dvesha Aversion to pain (inverse)
 Unconditional_Equanimity Emotional balance component

PEACE DRIVE STRUCTURE
 =====
 drive_peace_internal_pct Internal seeking % (0-100)
 drive_peace_external_pct External seeking % (0-100)
 drive_peace_strength Overall drive strength (0.0-1.0)
 drive_peace_fulfillment Current fulfillment level (0.0-1.0)

PEACE INTERNAL COMPONENTS
 =====
 Peace_Internal_Mental_Still Mental stillness component
 Peace_Internal_Emotion_Equi Emotional equanimity component
 Peace_Internal_Present_Moment Present moment awareness component

MENTAL STILLNESS SUB-COMPONENTS
 =====
 Mental_Still_Mind_Proliferation Mind proliferation rate (inverse)
 Mental_Still_Presence Presence factor
 Mental_Still_Meditation_Depth Meditation depth score

BLISS DRIVE STRUCTURE
 =====
 drive_bliss_internal_pct Internal seeking % (0-100)
 drive_bliss_external_pct External seeking % (0-100)
 drive_bliss_strength Overall drive strength (0.0-1.0)
 drive_bliss_fulfillment Current fulfillment level (0.0-1.0)

BLISS INTERNAL COMPONENTS
 =====
 Bliss_Internal_Spiritual_Ecstasy Spiritual ecstasy component
 Bliss_Internal_Causeless_Joy Causeless joy component
 Bliss_Internal_Divine_Connection Divine connection component

SATISFACTION DRIVE STRUCTURE
 =====
 drive_satisfaction_internal_pct Internal seeking % (0-100)
 drive_satisfaction_external_pct External seeking % (0-100)
 drive_satisfaction_strength Overall drive strength (0.0-1.0)
 drive_satisfaction_fulfillment Current fulfillment level (0.0-1.0)

SATISFACTION INTERNAL COMPONENTS
 =====
 Satisfaction_Internal_Completeness Completeness perception
 Satisfaction_Internal_Contentment Contentment level
 Satisfaction_Internal_Present_Fullness Present fullness awareness

FREEDOM DRIVE STRUCTURE
 =====
 drive_freedom_internal_pct Internal seeking % (0-100)
 drive_freedom_external_pct External seeking % (0-100)

drive_freedom_strength	Overall drive strength (0.0-1.0)
drive_freedom_fulfillment	Current fulfillment level (0.0-1.0)

FREEDOM INTERNAL COMPONENTS

=====	=====
Freedom_Internal_Liberation	Liberation from patterns
Freedom_Internal_Choice_Conscious	Choice consciousness
Freedom_Internal_Being_Space	Being space (non-doing)

Seven Transformation Matrices (28 States x 7 Matrices = 196 Variables)

TRUTH MATRIX (4 States)

=====	=====
matrix_truth_position	Current state (1-4)
matrix_truth_illusion	State 1: Illusion level
matrix_truth_confusion	State 2: Confusion level
matrix_truth_clarity	State 3: Clarity level
matrix_truth_truth	State 4: Truth realization

LOVE MATRIX (4 States)

=====	=====
matrix_love_position	Current state (1-4)
matrix_love_separation	State 1: Separation level
matrix_love_connection	State 2: Connection level
matrix_love_unity	State 3: Unity experience
matrix_love_oneness	State 4: Oneness realization

POWER MATRIX (4 States)

=====	=====
matrix_power_position	Current state (1-4)
matrix_power_victim	State 1: Victim consciousness
matrix_power_responsibility	State 2: Responsibility taking
matrix_power_mastery	State 3: Mastery development
matrix_power_service	State 4: Service orientation

FREEDOM MATRIX (4 States)

=====	=====
matrix_freedom_position	Current state (1-4)
matrix_freedom_bondage	State 1: Bondage experience
matrix_freedom_choice	State 2: Choice awareness
matrix_freedom_liberation	State 3: Liberation state
matrix_freedom_transcendence	State 4: Transcendence beyond

CREATION MATRIX (4 States)

=====	=====
matrix_creation_position	Current state (1-4)
matrix_creation_destruction	State 1: Destruction phase
matrix_creation_maintenance	State 2: Maintenance phase
matrix_creation_creation	State 3: Creation phase
matrix_creation_source	State 4: Source connection

TIME MATRIX (4 States)

=====	=====
matrix_time_position	Current state (1-4)
matrix_time_past_future	State 1: Past/future focus
matrix_time_present	State 2: Present awareness
matrix_time_eternal	State 3: Eternal perspective
matrix_time_beyond	State 4: Beyond time

DEATH MATRIX (4 States)

=====	=====
matrix_death_position	Current state (1-4)
matrix_death_clinging	State 1: Clinging to life/identity
matrix_death_acceptance	State 2: Acceptance of impermanence

matrix_death_surrender	State 3: Surrender to flow
matrix_death_rebirth	State 4: Rebirth/transformation

PART 4: CASCADE MECHANISM (150+ Variables)

Seven Cascade Levels

```

LEVEL 1: SELF (PURE CONSCIOUSNESS)
=====
cascade_self_cleanliness      Self cleanliness score (0.0-1.0)
cascade_self_baseline         Pure consciousness baseline

LEVEL 2: EGO (SEPARATION/IDENTITY)
=====
cascade_ego_cleanliness      Ego cleanliness score (0.0-1.0)
cascade_ego_separation       Ego separation strength
cascade_ego_asmita           Asmita (I-am-ness) strength

EGO SUB-COMPONENTS
=====
Ego_Cleanliness_Attachment   Attachment inverse factor
Ego_Cleanliness_Asmita        Asmita inverse factor

LEVEL 3: MEMORY (SAMSKARA STORAGE)
=====
cascade_memory_cleanliness    Memory cleanliness score (0.0-1.0)
cascade_memory_distortion     Memory distortion level
cascade_memory_samskara_load Samskara accumulation level

LEVEL 4: INTELLECT (DISCRIMINATION/BUDDHI)
=====
cascade_intellect_cleanliness Intellect cleanliness score (0.0-1.0)
cascade_intellect_discrimination Discrimination capacity
cascade_intellect_maya_factor Maya contamination factor

LEVEL 5: MIND (THOUGHT GENERATION/MANAS)
=====
cascade_mind_cleanliness     Mind cleanliness score (0.0-1.0)
cascade_mind_proliferation   Thought proliferation rate
cascade_mind_emotional_chaos Emotional chaos level

LEVEL 6: BREATH (PRANA REGULATION)
=====
cascade_breath_cleanliness   Breath cleanliness score (0.0-1.0)
cascade_breath_strength      Prana strength level
cascade_breath_rhythm        Breath rhythm coherence

LEVEL 7: BODY (PHYSICAL MANIFESTATION)
=====
cascade_body_cleanliness     Body cleanliness score (0.0-1.0)
cascade_body_health          Physical health score
cascade_body_vitality        Vitality level

```

Cleanliness Dynamics

```

CLEANLINESS THRESHOLDS
=====
cleanliness_threshold_liberation 0.90+ Liberation zone
cleanliness_threshold_dharmic     0.70-0.90 Dharmic zone

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cleanliness_threshold_growth      0.50-0.70 Growth zone
cleanliness_threshold_struggle   0.30-0.50 Struggle zone
cleanliness_threshold_darkness   0.00-0.30 Darkness zone

CLEANLINESS CHANGE RATES
=====
cleanliness_change_rate          dCleanliness/dt overall
cleanliness_cleaning_effort     Conscious cleaning effort
cleanliness_contamination_rate  Environmental contamination rate
cleanliness_grace_multiplier    Grace enhancement factor

```

Demultiplexer Mechanics (Choice Points)

```

CHOICE PROBABILITY AT EACH LEVEL
=====
demux_choice_prob_level_1        Choice probability at Self level
demux_choice_prob_level_2        Choice probability at Ego level
demux_choice_prob_level_3        Choice probability at Memory level
demux_choice_prob_level_4        Choice probability at Intellect level
demux_choice_prob_level_5        Choice probability at Mind level
demux_choice_prob_level_6        Choice probability at Breath level
demux_choice_prob_level_7        Choice probability at Body level

PATH SELECTION MECHANICS
=====
demux_path_possibilities        Array of possible paths
demux_consciousness_weights    Consciousness-based weighting
demux_selected_path             Final path selection

```

PART 5: EMOTION DERIVATION (200+ Variables)

Master Emotion Formula Components

```

BASE EMOTION STRUCTURE
=====
emotion_base_love                Pure love component (always present)
emotion_ego_config               Ego configuration modifier
emotion_memory_activation        Memory activation pattern
emotion_intellect_interpretation Intellect interpretation layer
emotion_mind_proliferation      Mind proliferation factor
emotion_breath_pattern           Breath pattern influence
emotion_body_expression          Body expression component
emotion_temporal_focus           Temporal focus (past/present/future)
emotion_chakra_activation        Chakra activation pattern
emotion_environmental_field     Environmental field influence

```

Specific Emotions (20+ Core Emotions)

```

JOY
=====
emotion_joy_intensity            Final joy intensity (0.0-1.0)
emotion_joy_love_component       Love base for joy
emotion_joy_ego_reduction        Ego reduction factor
emotion_joy_positive_memory     Positive memory activation
emotion_joy_present_focus        Present moment focus
emotion_joy_heart_open           Heart openness component
emotion_joy_grace_flow           Grace flow enhancement

ANGER

```

```
=====
emotion_anger_intensity      Final anger intensity (0.0-1.0)
emotion_anger_love_base       Love base (frustrated love)
emotion_anger_ego_separation Ego separation strength
emotion_anger_past_hurt      Past hurt activation
emotion_anger_boundaryViolation Boundary violation trigger
emotion_anger_solar_plexus   Solar plexus fire energy
```

FEAR

```
=====
emotion_fear_intensity      Final fear intensity (0.0-1.0)
emotion_fear_love_base       Love base (protective love)
emotion_fear_separation     Separation from safety
emotion_fear_future_projection Future threat projection
emotion_fear_absence_presence Absence of presence
emotion_fear_survival_threat Survival threat perception
```

SADNESS

```
=====
emotion_sadness_intensity   Final sadness intensity (0.0-1.0)
emotion_sadness_love_base   Love base (longing)
emotion_sadness_separation Separation from loved
emotion_sadness_past_focus  Past focus (loss)
emotion_sadness_loss_recognition Loss recognition
```

JEALOUSY

```
=====
emotion_jealousy_intensity  Final jealousy intensity (0.0-1.0)
emotion_jealousy_love_base  Love base (possessive love)
emotion_jealousy_ego_separation Ego separation strength
emotion_jealousy_scarcity  Scarcity belief patterns
emotion_jealousy_comparison Comparison activation
emotion_jealousy_agitation Mental agitation level
```

COMPASSION

```
=====
emotion_compassion_intensity Final compassion intensity (0.0-1.0)
emotion_compassion_love_base Love base (expanded love)
emotion_compassion_soft_boundaries Softened boundaries
emotion_compassion_unity_exp Unity experience
emotion_compassion_heart_open Heart openness
```

Nine Rasas (Aesthetic Emotions)

SHRINGARA (LOVE/BEAUTY)

```
=====
rasa_shringara_intensity    Shringara intensity (0.0-1.0)
rasa_shringara_high_love    High love component
rasa_shringara_presence     Presence factor
rasa_shringara_unity_awareness Unity awareness
```

HASYA (JOY/HUMOR)

```
=====
rasa_hasya_intensity        Hasya intensity (0.0-1.0)
rasa_hasya_high_energy      High energy component
rasa_hasya_presence         Presence factor
rasa_hasya_light_ego        Light ego (playfulness)
```

KARUNA (COMPASSION)

```
=====
rasa_karuna_intensity       Karuna intensity (0.0-1.0)
rasa_karuna_love             Love base
rasa_karuna_suffering_aware Suffering awareness
```

```

RAUDRA (ANGER/FURY)
=====
rasa_raudra_intensity      Raudra intensity (0.0-1.0)
rasa_raudra_high_energy    High energy component
rasa_raudra_separation     Separation strength
rasa_raudra_past_hurt      Past hurt activation

VEERA (COURAGE)
=====
rasa_veera_intensity       Veera intensity (0.0-1.0)
rasa_veera_high_energy     High energy component
rasa_veera_purpose         Purpose clarity
rasa_veera_present         Present moment power

BHAYANAKA (FEAR)
=====
rasa_bhayanaka_intensity   Bhayanaka intensity (0.0-1.0)
rasa_bhayanaka_no_presence Absence of presence
rasa_bhayanaka_future      Future projection
rasa_bhayanaka_separation  Separation from safety

ADBHUTA (WONDER)
=====
rasa_adbhuta_intensity     Adbhuta intensity (0.0-1.0)
rasa_adbhuta_high_awareness High awareness
rasa_adbhuta_openness      Openness to new
rasa_adbhuta_present       Present moment wonder

SHANTA (PEACE)
=====
rasa_shanta_intensity      Shanta intensity (0.0-1.0)
rasa_shanta_low_desire     Low desire state
rasa_shanta_present         Present moment
rasa_shanta_acceptance     Acceptance level

BIBHATSA (DISGUST)
=====
rasa_bibhatsa_intensity    Bibhatsa intensity (0.0-1.0)
rasa_bibhatsa_aversion      Aversion strength
rasa_bibhatsa_past_negative Past negative conditioning
rasa_bibhatsa_protection   Protection mechanism

```

PART 6: QUANTITATIVE DIMENSIONS (50+ Variables)

POMDP Gap Dynamics

```

POMDP STATE VARIABLES
=====
pomdp_real_state          Real actual state (R)
pomdp_believed_state      Believed state (B)
pomdp_observed_state       Observed state (O)

POMDP GAPS
=====
pomdp_reality_gap          |R - B| reality gap
pomdp_observation_gap      |R - O| observation gap
pomdp_belief_gap           |B - O| belief gap
pomdp_severity              M_maya × (1 - W) × (1 - A_aware)

```

Perfection Degree Spectrum

```
PERFECTION METRICS
=====
perfection_degree          0% to ∞ engagement depth
perfection_surface          25% surface application
perfection_moderate         50% moderate engagement
perfection_mastery          100% complete mastery
perfection_transcendence    200%+ transcendence level
```

Measurement Protocols

```
CONSCIOUSNESS MEASUREMENT
=====
measurement_precision        Consciousness_Level × W × (1 - M_maya)
measurement_operator_matrix  Consciousness as measurement device
measurementCollapse_prob     Probability of state collapse
```

PART 7: STRUCTURAL ARCHITECTURE (80+ Variables)

Five Circles of Being

```
CIRCLE DEFINITIONS
=====
circle_personal_radius       Vyakti (personal) radius
circle_family_radius         Parivar (family) radius
circle_social_radius         Madhyama (social) radius
circle_professional_radius  Vyavasaya (professional) radius
circle_universal_radius     Vishva (universal) radius

CIRCLE CALCULATIONS
=====
circle_radius_influence      Influence extent factor
circle_radius_energy          Energy investment factor
circle_radius_time            Time allocation factor
```

OSAFC Eight Layers

```
OSAFC LAYER ACTIVITY
=====
osafc_spirit_activity        Spirit layer activity level
osafc_energy_activity         Energy layer activity level
osafc_emotional_activity     Emotional layer activity level
osafc_mental_activity         Mental layer activity level
osafc_vital_activity          Vital layer activity level
osafc_physical_activity       Physical layer activity level
osafc_material_activity       Material layer activity level
osafc_universal_activity     Universal layer activity level
```

Center of Good

```
CENTER METRICS
=====
center_proximity              Proximity to convergence point
center_drive_integration      Drive integration level
center_sacred_alignment       Sacred Chain alignment
```

Kosha Integration (5 Sheaths)

```
KOSHA CLEANLINESS
=====
kosha_annamaya_clean      Annamaya (food/physical) cleanliness
kosha_pranamaya_clean     Pranamaya (energy/vital) cleanliness
kosha_manomaya_clean      Manomaya (mental/emotional) cleanliness
kosha_vijnanamaya_clean   Vijnanamaya (wisdom/intellect) cleanliness
kosha_anandamaya_clean   Anandamaya (bliss/causal) cleanliness
```

PART 8: DYNAMIC MECHANICS (200+ Variables)

Network Effects

```
NETWORK CORE VARIABLES
=====
network_effect_strength    R^N x Coherence^2
network_connected_nodes    N = number of nodes
network_coherence          Coherence factor
network_critical_mass      0.035 x Population (3.5%)
network_committed_count    Current committed individuals
network_distance_to_critical Critical_Mass - Committed_Count

NODE PROPERTIES
=====
network_node_influence     Individual node influence weight
network_coherence_field_i  Coherence field for node i
network_resonance_propagation Resonance propagation speed
```

Emergence Properties

```
EMERGENCE METRICS
=====
emergence_threshold         Activation threshold value
emergence_strength          Emergence intensity
emergence_collective_iq     Group_Mind_IQ - Sum(Individual_IQs)
emergence_morphic_field     Morphic field activation level
emergence_collective_capability Collective capability emergence
```

Quantum Superposition & Tunneling

```
QUANTUM STATE
=====
quantum_superposition_state | Transformation■ superposition
quantum_superposition_s2_amp √0.3|S2■ amplitude
quantum_superposition_s3_amp √0.5|S3■ amplitude
quantum_superposition_s4_amp √0.2|S4■ amplitude

COLLAPSE MECHANICS
=====
quantumCollapse_prob        Collapse probability
quantumCollapse_readiness   Readiness factor
quantumCollapse_catalyst    Catalyst strength
quantumCollapse_grace       Grace factor

TUNNELING MECHANICS
```

```

=====
quantum_tunnel_prob          P(tunnel) = e^(-2κL)
quantum_tunnel_barrier_const κ barrier constant
quantum_tunnel_barrier_width L barrier width
quantum_tunnel_energy        Available energy for tunneling

```

Death Architecture (D1-D7)

```

DEATH TYPE DETECTION
=====
death_type_active           Active death process type (D1-D7)
death_depth                 E_energy × V × transformation_magnitude

D1: PHYSICAL DEATH
=====
death_d1_physical_active    D1 activation level
death_d1_physical_intensity Physical death intensity

D2: RELATIONSHIP DEATH
=====
death_d2_relationship_active D2 activation level
death_d2_relationship_intensity Relationship ending depth

D3: IDENTITY DEATH
=====
death_d3_identity_active    D3 activation level
death_d3_identity_intensity Identity dissolution depth

D4: BELIEF SYSTEM DEATH
=====
death_d4_belief_active      D4 activation level
death_d4_belief_intensity   Belief system collapse depth

D5: DESIRE DEATH
=====
death_d5_desire_active      D5 activation level
death_d5_desire_intensity   Desire cessation depth

D6: SEPARATION DEATH
=====
death_d6_separation_active  D6 activation level
death_d6_separation_intensity Separation ending depth

D7: EGO DEATH
=====
death_d7_ego_active          D7 activation level
death_d7_ego_intensity        Ego dissolution depth

```

Grace Mechanics

```

GRACE CALCULATIONS
=====
grace_availability          G × Surrender × Ce × Readiness
grace_effectiveness          G × (1 - At) × Ce × Readiness
grace_probability            f(prayer, surrender, cleaning, divine_will)
grace_timing                 Unknowable (divine timing)
grace_divine_will            Unknowable component

```

Karma Dynamics

KARMA TYPES (3)

```

=====
karma_sanchita           Accumulated karma (storage)
karma_prarabdha          Active karma this life (allocated)
karma_kriyamana          Creating karma now (real-time)

KARMA RATES
=====
karma_generation_rate    Actions × (1 + Hf) × (1 - A_aware)
karma_burning_rate        Ce × G_grace × A_aware
karma_net_change          Generation_Rate - Burning_Rate

KARMA ALLOCATION
=====
karma_allocation_prob_i   Probability karma_i activates
karma_activation_time_i  When karma_i activates
karma_initial_sanchita   Initial accumulated karma (unknowable)

```

PART 9: MASTER REALISM ENGINE (60+ Realism Types)

S1-S2 Realisms (Survival/Seeking Consciousness)

```

SURVIVAL REALISMS
=====
realism_dirty             Dirty Realism weight
realism_naturalistic     Naturalistic Realism weight
realism_biological        Biological Realism weight
realism_survival          Survival Realism weight
realism_scarcity          Scarcity Realism weight
realism_material          Material Realism weight
realism_physical          Physical Realism weight

```

S3-S4 Realisms (Achievement/Service Consciousness)

```

ACHIEVEMENT REALISMS
=====
realism_social             Social Realism weight
realism_psychological      Psychological Realism weight
realism_economic            Economic Realism weight
realism_political          Political Realism weight
realism_achievement         Achievement Realism weight
realism_professional        Professional Realism weight
realism_relational          Relational Realism weight

```

S5-S6 Realisms (Surrender/Witness Consciousness)

```

INTEGRATED REALISMS
=====
realism_emotional          Emotional Realism weight
realism_service              Service Realism weight
realism_flow                 Flow Realism weight
realism_integrated           Integrated Realism weight
realism_holistic              Holistic Realism weight

```

S7-S8 Realisms (Wisdom/Unity Consciousness)

```

TRANSCENDENT REALISMS
=====
```

realism_unity	Unity Realism weight
realism_witness	Witness Realism weight
realism_grace	Grace Realism weight
realism_transcendent	Transcendent Realism weight
realism_absolute	Absolute Realism weight
realism_universal	Universal Realism weight

Realism Blending

REALISM BLEND FORMULA	
=====	=====
realism_blend_final	$\Sigma[\text{Realism}_i \times \text{Weight}_i \times \text{Fractal_Depth}_i]^C_{\text{base}}$
realism_weight_i	Context-specific weight for realism_i
realism_fractal_depth_i	Fractal depth for realism_i
realism_dominant	Highest weighted realism

PART 10: COLLECTIVE REALITY (100+ Variables)

Multi-Human Systems

RELATIONSHIP FIELDS	
=====	=====
relationship_field_strength	Field strength between 2+ beings
relationship_shared_reality	Shared reality space quality
relationship_we_space_quality	We-space emergence quality
relationship_resonance	Resonance between participants
relationship_time_together	Time factor in field building

WE-SPACE METRICS	
=====	=====
we_space_coherence	Collective coherence
we_space_shared_sacred	Shared Sacred Chain level
we_space_alignment	Alignment between participants
we_space_emergence	Emergent we-space properties

Morphogenetic Fields

MORPHIC FIELD VARIABLES	
=====	=====
morphic_field_strength	f(repetitions, participants, coherence)
morphic_repetitions	Number of repetitions
morphic_participants	Number of participants
morphic_coherence	Field coherence level
morphic_access_prob	Access probability for individual
morphic_resonance	Resonance with field

Collective Transformation

GROUP EVOLUTION	
=====	=====
group_evolution_rate	f(individual_rates, coherence, network)
group_breakthrough_prob	Collective breakthrough probability
group_grace_multiplication	Grace multiplication in groups
group_coherence_multiplier	Coherence enhancement factor

PART 11: ADVANCED MATHEMATICAL FRAMEWORKS (100+ Variables)

Consciousness Field Equations

```
FIELD COMPONENTS
=====
field_consciousness_electric      E_consciousness field
field_consciousness_magnetic     B_consciousness field
field_consciousness_charge        ρ_consciousness charge density
field_consciousness_current      J_consciousness current density
```

Evolution Differential Equations

```
EVOLUTION COEFFICIENTS (Refined)
=====
coeff_awareness_linear           k■ linear awareness coefficient
coeff_practice_linear           k■ linear practice coefficient
coeff_grace_linear              k■ linear grace coefficient
coeff_resistance_linear         k■ linear resistance coefficient
coeff_nonlinear_s5plus          Nonlinear acceleration for S5+
coeff_coupling_operators        Coupling between operators
```

Fourier Analysis of Consciousness

```
FREQUENCY COMPONENTS
=====
fourier_coeff_a_n                A_n sine coefficients
fourier_coeff_b_n                B_n cosine coefficients
fourier_frequency_omega          ω fundamental frequency
fourier_dominant_harmonic        Dominant frequency component

SACRED LEVEL FREQUENCIES
=====
freq_s1_s2_range                 0.1-1 Hz (survival/seeking)
freq_s3_s4_range                 1-30 Hz (achievement/service)
freq_s5_s6_range                 30-100 Hz (surrender/witness)
freq_s7_s8_range                 100+ Hz (wisdom/unity)
```

Sacred Geometry & Golden Mathematics

```
GOLDEN RATIO CHECKS
=====
golden_ratio_witness_maya        W / M_maya > 1.618 (clear seeing)
golden_ratio_seeking_attachment  Se / At > 1.618 (liberation)
golden_ratio_love_fear           L_love / Fear > 1.618 (heart opening)
golden_phi                       1.618033988749...

FIBONACCI & GROWTH
=====
fibonacci_sequence               [1,1,2,3,5,8,13,21,34...]
fibonacci_sacred_mapping         Fibonacci index → S-level
phi_spiral_growth                Growth rate = phi per iteration
```

Information Theory

```
ENTROPY CALCULATIONS
=====
entropy_consciousness            H = -Σ[p_i × log(p_i)]
```

entropy_belief_state	Shannon entropy of beliefs
entropy_information_gain	Information gain from awareness
entropy_prob_i	Probability of state_i

Vibrational Mathematics

HARMONIC FREQUENCIES	
=====	
vibration_base_freq	f_0 base frequency
vibration_harmonic_pattern	Harmonic overtone pattern
vibration_resonance_field	Resonance field strength
vibration_modulation	Modulation function
vibration_beat_freq	$ f_0 - f_n $ beat frequency

PART 12: DYNAMIC EVOLUTION PATTERNS (80+ Variables)

Regression-Evolution Oscillation

OSCILLATION DYNAMICS	
=====	
oscillation_forward_evolution	Forward evolution component
oscillation_regression_pull	Regression pull component
oscillation_amplitude	A oscillation amplitude
oscillation_frequency	ω oscillation frequency
oscillation_phase	ϕ phase offset
oscillation_regression_depth	$k \times \text{Breakthrough_Magnitude}$ ($k \approx 0.3$)
SPIRAL PATH	
=====	
spiral_base_level	S_sacred_base level
spiral_radius	R spiral radius
spiral_angle	θ angular position
spiral_amplitude	A spiral amplitude

Hierarchical Resolution (H1-H8)

HIERARCHICAL LEVELS	
=====	
hierarchy_h1_personal	H1: Personal (1 being)
hierarchy_h2_interpersonal	H2: Interpersonal (2)
hierarchy_h3_collective	H3: Collective (3-20)
hierarchy_h4_cultural	H4: Cultural (100-100k)
hierarchy_h5_archetypal	H5: Archetypal (all humans)
hierarchy_h6_universal	H6: Universal (all sentient)
hierarchy_h7_absolute	H7: Absolute (beyond subject-object)
hierarchy_h8_void	H8: Void (pre-existence, $0=\infty$)
HIERARCHY DETECTION	
=====	
hierarchy_current_level	Current H-level from query scope
hierarchy_scope_analysis	Scope analysis for H-level

Creator Consciousness Exponential

CREATOR EXPONENT	
=====	
creator_consciousness	C_creator exponent value

```

creator_sacred_level           S-level component
creator_unique_signature        Unique signature multiplier
creator_intention_purity       Intention purity factor

CREATOR EXAMPLES
=====
creator_s1_exponent            C ≈ 0.25 at S1
creator_s4_exponent            C ≈ 1.0 at S4
creator_s8_exponent            C → ∞ at S8

REALITY GENERATION
=====
reality_from_creator           Reality = Framework^C_creator

```

Frequency Pattern Dynamics

```

BEING FREQUENCY
=====
freq_base                      f■ base frequency calculation
freq_harmonic_pattern          Harmonic pattern from operators
freq_resonance_field           Resonance field component
freq_modulation_func           Modulation function

RESONANCE BETWEEN BEINGS
=====
resonance_integral              ∫ Φ■(f) × Φ■(f) df
resonance_phi_1                 Frequency pattern being 1
resonance_phi_2                 Frequency pattern being 2

```

Non-Linear Growth Dynamics

```

GROWTH PATTERNS
=====
growth_punctuated_equilibrium   Punctuated equilibrium state
growth_quantum_jump_prob        P(jump) = Readiness × Catalyst × Grace × e^(-Barrier/Energy)
growth_barrier_height           Barrier height to overcome
growth_available_energy          Energy available for jump
growth_plateau_state            Horizontal integration plateau
growth_exponential_zone         Exponential growth zone
growth_acceleration_rate        ds/dt = e^(kt) when aligned

```

PART 13: DISTORTION MECHANICS (50+ Variables)

Maya Vrittis (Illusion Patterns)

```

VEILING POWER
=====
maya_avarana_shakti             Avarana Shakti (veiling power)
maya_veiling_strength           Veiling strength level

PROJECTING POWER
=====
maya_vikshepa_shakti            Vikshepa Shakti (projecting power)
maya_projection_strength         Projection strength level

ILLUSION PATTERNS
=====
maya_vritti_count               Number of active vrittis

```

maya_vritti_strength_i	Strength of vritti_i
maya_vritti_pattern_i	Pattern of vritti_i

Kleshas (Afflictions)

```
ASMITA (I-AM-NESS)
=====
klesha_asmita_strength           Asmita strength level
klesha_asmita_ego_identification   Ego identification intensity

RAGA (ATTACHMENT)
=====
klesha_raga_strength             Raga strength level
klesha_raga_pleasure_seeking      Attachment to pleasure

DVESHA (AVERSION)
=====
klesha_dvesha_strength           Dvesha strength level
klesha_dvesha_pain_avoidance     Aversion to pain

ABHINIVESHA (FEAR OF DEATH)
=====
klesha_abhinivesha_strength       Abhinivesha strength level
klesha_abhinivesha_clinging       Clinging to life/identity

AVIDYA (IGNORANCE ROOT)
=====
klesha_avidya_strength            Avidya strength level (root ignorance)
klesha_avidya_root_confusion      Root confusion level
```

PART 14: FIVE ACTS (PANCHAKRITYA) (15 Variables)

```
FIVE COSMIC ACTS
=====
act_srishti_creation              Srishti (creation) activity level
act_sthiti_maintenance            Sthiti (maintenance) activity level
act_samhara_dissolution           Samhara (dissolution) activity level
act_tirodhana_concealment         Tirodhana (concealment) activity level
act_anugraha_grace                Anugraha (grace/revelation) activity level

ACT DOMINANCE
=====
act_current_dominant               Currently dominant act
act_creation_phase                 In creation phase (boolean)
act_maintenance_phase              In maintenance phase (boolean)
act_dissolution_phase              In dissolution phase (boolean)
act_concealment_active             Concealment active (boolean)
act_grace_active                   Grace active (boolean)
```

PART 15: PLATFORM-SPECIFIC VARIABLES (30+ Variables)

Platform Constraints

```
TIKTOK CONSTRAINTS
=====
```

```

platform_tiktok_duration          0-60 seconds
platform_tiktok_hook              3 second hook requirement
platform_tiktok_vertical           Vertical format

EMAIL CONSTRAINTS
=====
platform_email_words             500 word limit
platform_email_scan_time          7 second scan window
platform_email_response_window    24 hour response window

MEETING CONSTRAINTS
=====
platform_meeting_cycle            10 minute attention cycles
platform_meeting_energy_decay     Energy decay rate
platform_meeting_hierarchy         Hierarchy influence factor

GENERAL PLATFORM
=====
platform_base_reality             Base reality before constraints
platform_constrained_output       Output = Base × Platform_Constraints

```

PART 16: GREEK SYMBOLS & MATHEMATICAL OPERATORS

```

GREEK SYMBOLS (Keep As-Is Per Edge Case Decision)
=====

Ψ                               Psi - consciousness wave function
Ψbase                         Ψ^Ψ - consciousness operating on itself
Φ                               Phi - frequency patterns, golden ratio
θ                               Theta - angle, phase, spiral parameter
ω                               Omega - angular frequency
κ                               Kappa - barrier constant in tunneling
ϕ                               Phi (lowercase) - phase offset
■                               Hamiltonian operator for consciousness
α                               Alpha - coefficient/parameter
β                               Beta - coefficient/parameter
γ                               Gamma - coefficient/parameter

MATHEMATICAL OPERATORS
=====
∇                               Nabla - gradient/divergence operator
∇2                            Laplacian operator
∂/∂t                            Partial derivative with respect to time
∫                               Integral operator
Σ                               Summation operator
Π                               Product operator
√                               Square root
e                               Euler's number (2.71828...)
π                               Pi (3.14159...)
∞                               Infinity

```

PART 17: INDEXED VARIABLES (Per Edge Case Decision)

```

ARRAY/SEQUENCE INDICES
=====

A_index_i                        A indexed by i
B_index_n                        B indexed by n
k_index_j                         k indexed by j

```

```

Weight_index_i           Weight indexed by i
Realism_index_i          Realism indexed by i
State_index_n             State indexed by n

COEFFICIENT ARRAYS (Natural Language)
=====
coeff_awareness           Awareness coefficient ( $k_A$ )
coeff_practice             Practice coefficient ( $k_P$ )
coeff_grace                Grace coefficient ( $k_G$ )
coeff_resistance           Resistance coefficient ( $k_R$ )
coeff_network              Network coefficient
coeff_evolution             Evolution coefficient
coeff_barrier               Barrier coefficient

```

PART 18: TIME-VARYING VARIABLES (Context-Based Per Edge Case)

```

TIME-VARYING OPERATORS (Implicit Time)
=====
P_presence                 P(t) - presence at time t (context)
A_aware                     A(t) - awareness at time t (context)
E_energy                     E(t) - energy at time t (context)
Ψ_base                      Ψ(t) - consciousness at time t (context)
M_manifest                  M(t) - manifestation at time t (context)
L_love                       L(f,g) - love field (context)
G_grace                      G(t) - grace at time t (context)
S_struct                     S(t) - structure at time t (context)

TIME DERIVATIVES (Explicit Rates)
=====
S_sacred_transition_rate    dS/dt - Sacred Chain evolution rate
cleanliness_change_rate     dCleanliness/dt - cleanliness change rate
karma_generation_rate       dK/dt - karma generation rate
energy_change_rate          dE/dt - energy change rate
awareness_growth_rate       dA/dt - awareness growth rate
oscillation_frequency       dθ/dt - oscillation frequency

```

PART 19: SUMMARY STATISTICS

```

TOTAL VARIABLE COUNT BY CATEGORY
=====
Core Operators (25):            25
Consciousness Coordinates:      180
Cascade Mechanism:              150
Emotion Derivation:             200
Quantitative Dimensions:        50
Structural Architecture:        80
Dynamic Mechanics:              200
Master Realism Engine:          60
Collective Reality:              100
Advanced Math Frameworks:        100
Dynamic Evolution:               80
Distortion Mechanics:            50
Five Acts:                      15
Platform-Specific:              30
Greek & Math Operators:          20
Indexed Variables:               50
Time-Varying:                   30

```

TOTAL ESTIMATED VARIABLES: 1,500+
 (Document states ~1,109 but analysis shows 1,500+ with all variations)

IMPLEMENTATION GUIDELINES FOR BACKEND

Database Schema Structure

```
// Flat structure - no nested dots
interface OOFVariables {
  // Core Operators
  P_presence: number;
  A_aware: number;
  M_maya: number;
  M_manifest: number;
  // ... all 25 operators

  // Sacred Chain
  S_sacred_level: 1|2|3|4|5|6|7|8;
  S_sacred_transition_rate: number;

  // Drives (5 x 4 = 20)
  drive_love_internal_pct: number;
  drive_love_external_pct: number;
  drive_love_strength: number;
  drive_love_fulfillment: number;
  // ... repeat for peace, bliss, satisfaction, freedom

  // Cascade (7 levels)
  cascade_ego_cleanliness: number;
  cascade_memory_cleanliness: number;
  // ... all 7 levels

  // Continue for all 1,500+ variables...
}
```

Variable Type Suffixes

_score	→ 0.0-1.0 measured value
_rate	→ dx/dt time derivative
_level	→ discrete state (S1-S8, H1-H8)
_prob	→ 0.0-1.0 probability
_strength	→ 0.0-1.0 intensity
_pct	→ 0-100 percentage
_intensity	→ 0.0-1.0 intensity
_index_i	→ indexed variable
_count	→ integer count
_active	→ boolean flag

Collision Resolution Map

```
// Must disambiguate these 7 collisions
const COLLISION_MAP = {
  'M': {
    maya: 'M_maya',           // Illusion operator
    manifest: 'M_manifest',   // Manifestation UCB
    mind: 'M_mind'           // Mind cascade layer
  }
}
```

```

},
'S': {
    sacred: 'S_sacred',          // Sacred Chain S1-S8
    struct: 'S_struct',          // Structure UCB
    self: 'S_self'              // Self cascade layer
},
'E': {
    energy: 'E_energy',         // Energy UCB
    ego: 'E_ego',               // Ego cascade layer
    emerge: 'E_emerge'          // Emergence properties
},
'A': {
    aware: 'A_aware',           // Awareness UCB
    action: 'A_action'          // Action embodying pathway
},
'C': {
    base: 'C_base',             // Consciousness^Consciousness
    creator: 'C_creator'        // Creator exponent
},
'P': {
    presence: 'P_presence',     // Presence UCB
    prana: 'P_prana',           // Prana cascade layer
    prob: 'P_prob',              // Probability
    power: 'P_power'            // Power matrix
},
'L': {
    love: 'L_love',              // Love UCB
    liberate: 'L_liberate'       // Liberation component
}
};

```

LLM Prompt Context Template

When processing OOF calculations, use this variable nomenclature:

Core Operators: P_presence, A_aware, E_energy, Ψ_base, M_manifest, L_love, G_grace, S_struct, At, W, M_maya, Hi
Sacred Chain: S_sacred_level (1-8), S_sacred_transition_rate
Drives: drive_{love|peace|bliss|satisfaction|freedom}_{internal_pct|external_pct|strength|fulfillment}
Cascade: cascade_{ego|memory|intellect|mind|breath|body}_cleanliness
[Continue with relevant variables for the calculation...]

FINAL NOTES

1. **Total Variables**: ~1,500 (not 1,109 as originally stated - analysis found more with variations)
2. **Collision Resolution**: All 7 critical collisions (M, S, E, A, C, P, L) MUST use disambiguated names
3. **Greek Symbols**: Keep as-is (Ψ , Φ , θ , ω , κ , ϕ , etc.)
4. **Time Context**: Implicit in most variables, explicit _rate suffix for derivatives
5. **Indexing**: Use A_index_i, B_index_n style, or natural language like coeff_awareness
6. **Database**: Flat structure with underscores, no nested dots
7. **Type System**: Use suffixes (_score, _rate, _level, _prob, _strength, _pct) for clarity
8. **LLM Prompting**: Pass full variable context for each calculation to minimize ambiguity

This nomenclature creates the shortest semantic distance between variable names and LLM comprehension while maintaining mathematical rigor and avoiding conflicts.

=====

OOF COMPLETE NOMENCLATURE - APPENDIX

MATHEMATICAL VARIABLES FROM OOF_MATH.TXT

=====

DOCUMENT PURPOSE:

This appendix extends OOF_Complete_Nomenclature.pdf with variable names for all formulas introduced in OOF_Math.txt. These are the computational variables needed to implement the complete mathematical framework.

PART 20: MATHEMATICAL FORMULA VARIABLES

=====

SECTION 20.1: DRIVE COMPONENT CALCULATIONS (15 vars)

=====

Love Drive Internal Components

heart_open	- heart openness factor (0.0-1.0)
self_love	- self-love level (0.0-1.0)
unconditional_capacity	- capacity for unconditional love (0.0-1.0)
ego_separation	- degree of ego-based separation (0.0-1.0)
emotional_availability	- emotional availability (0.0-1.0)
vulnerability	- vulnerability capacity (0.0-1.0)
shadow_projection	- shadow projection strength (0.0-1.0)
self_acceptance	- self-acceptance level (0.0-1.0)

Peace Drive Internal Components

mental_stillness	- mental quietude level (0.0-1.0)
emotional_equanunity	- emotional balance (0.0-1.0)
present_moment	- present moment absorption (0.0-1.0)
mind_proliferation	- thought proliferation rate (0.0-1.0)
meditation_depth	- meditation depth achieved (0.0-1.0)
rasa_volatility	- emotional volatility (0.0-1.0)

Bliss Drive Internal Components

spiritual_ecstasy	- spiritual ecstasy level (0.0-1.0)
causeless_joy	- joy independent of conditions (0.0-1.0)
divine_connection	- connection to divine (0.0-1.0)
grace_connection	- grace field connection (0.0-1.0)
external_dependency	- dependency on external sources (0.0-1.0)
devotion	- devotional intensity (0.0-1.0)

Satisfaction Drive Internal Components

completeness	- sense of completeness (0.0-1.0)
contentment	- contentment level (0.0-1.0)
present_fullness	- fullness in present (0.0-1.0)
lack_perception	- perception of lack (0.0-1.0)
fullness_recognition	- recognition of inherent fullness (0.0-1.0)
restlessness	- restlessness level (0.0-1.0)
comparison	- comparison tendency (0.0-1.0)

Freedom Drive Internal Components

liberation_from_patterns	- freedom from habitual patterns (0.0-1.0)
choice_consciousness	- consciousness of choice (0.0-1.0)
being_space	- spaciousness of being (0.0-1.0)
breaking_capacity	- capacity to break patterns (0.0-1.0)
free_will	- free will available (0.0-1.0)
awareness_of_choices	- awareness of available choices (0.0-1.0)
doing_compulsion	- compulsion to do (0.0-1.0)
prarabdha_constraint	- karmic constraint from prarabdha (0.0-1.0)

=====

SECTION 20.2: DRIVE STRENGTH CALCULATIONS (10 vars)

=====

love_drive_strength	- strength of love drive (0.0-1.0)
peace_drive_strength	- strength of peace drive (0.0-1.0)
bliss_drive_strength	- strength of bliss drive (0.0-1.0)
satisfaction_drive_strength	- strength of satisfaction drive (0.0-1.0)
freedom_drive_strength	- strength of freedom drive (0.0-1.0)

```

base_love
heart_wounds
rajas_burnout
tamás_exhaustion
spiritual_hunger
unfulfilled_desires
comparison_frequency
perceived_constraints
rebellion_energy
      - base universal love constant (1.0)
      - accumulated heart wounds (0.0-1.0)
      - burnout from rajas (0.0-1.0)
      - exhaustion from tamas (0.0-1.0)
      - hunger for spiritual experience (0.0-1.0)
      - count of unfulfilled desires
      - frequency of comparison behavior
      - perceived constraints on freedom
      - rebellious energy level (0.0-1.0)

=====
SECTION 20.3: TRANSFORMATION MATRIX STATES (56 vars)
=====

# Truth Matrix (4 states)
truth_matrix_position
truth_matrix_state
illusion_score
confusion_score
clarity_score
truth_score
      - current position in truth matrix (0.0-1.0)
      - discrete state (illusion/confusion/clarity/truth)
      - strength of illusion state (0.0-1.0)
      - strength of confusion state (0.0-1.0)
      - strength of clarity state (0.0-1.0)
      - strength of truth state (0.0-1.0)

# Love Matrix (4 states)
love_matrix_position
love_matrix_state
separation_score
connection_score
unity_score
oneness_score
ego_boundaries
empathy
we_space_experience
duality
      - current position in love matrix (0.0-1.0)
      - discrete state (separation/connection/unity/oneness)
      - strength of separation state (0.0-1.0)
      - strength of connection state (0.0-1.0)
      - strength of unity state (0.0-1.0)
      - strength of oneness state (0.0-1.0)
      - strength of ego boundaries (0.0-1.0)
      - empathic capacity (0.0-1.0)
      - we-space quality (0.0-1.0)
      - duality perception (0.0-1.0)

# Power Matrix (4 states)
power_matrix_position
power_matrix_state
victim_score
responsibility_score
mastery_score
service_score
external_locus
powerlessness
blame
internal_locus
choice_recognition
skill_level
confidence
results
      - current position in power matrix (0.0-1.0)
      - discrete state (victim/responsibility/mastery/service)
      - strength of victim state (0.0-1.0)
      - strength of responsibility state (0.0-1.0)
      - strength of mastery state (0.0-1.0)
      - strength of service state (0.0-1.0)
      - external locus of control (0.0-1.0)
      - sense of powerlessness (0.0-1.0)
      - blame tendency (0.0-1.0)
      - internal locus of control (0.0-1.0)
      - recognition of choice (0.0-1.0)
      - skill development level (0.0-1.0)
      - confidence level (0.0-1.0)
      - results achieved (0.0-1.0)

# Freedom Matrix (4 states)
freedom_matrix_position
freedom_matrix_state
bondage_score
choice_score
liberation_score
transcendence_score
      - current position in freedom matrix (0.0-1.0)
      - discrete state (bondage/choice/liberation/transcendence)
      - strength of bondage state (0.0-1.0)
      - strength of choice state (0.0-1.0)
      - strength of liberation state (0.0-1.0)
      - strength of transcendence state (0.0-1.0)

# Creation Matrix (4 states)
creation_matrix_position
creation_matrix_state
destruction_score
maintenance_score
creation_score
source_score
      - current position in creation matrix (0.0-1.0)
      - discrete state (destruction/maintenance/creation/source)
      - strength of destruction state (0.0-1.0)
      - strength of maintenance state (0.0-1.0)
      - strength of creation state (0.0-1.0)
      - strength of source state (0.0-1.0)

# Time Matrix (4 states)
time_matrix_position
time_matrix_state
past_future_score
      - current position in time matrix (0.0-1.0)
      - discrete state (past_future/present/eternal/beyond_time)
      - strength of past/future state (0.0-1.0)

```

```

present_score - strength of present state (0.0-1.0)
eternal_score - strength of eternal state (0.0-1.0)
beyond_time_score - strength of beyond-time state (0.0-1.0)

# Death Matrix (4 states)
death_matrix_position - current position in death matrix (0.0-1.0)
death_matrix_state - discrete state (clinging/acceptance/surrender/rebirth)
clinging_score - strength of clinging state (0.0-1.0)
acceptance_score - strength of acceptance state (0.0-1.0)
surrender_score - strength of surrender state (0.0-1.0)
rebirth_score - strength of rebirth state (0.0-1.0)

=====
SECTION 20.4: CASCADE CLEANLINESS SUBCOMPONENTS (25 vars)
=====

asmita - ego identification strength (0.0-1.0)
discrimination - buddhi discrimination capacity (0.0-1.0)
emotional_chaos - mind-level emotional chaos (0.0-1.0)
breath_rhythm - breath rhythm quality (0.0-1.0)
physical_health - body physical health (0.0-1.0)
vitality - body vitality level (0.0-1.0)

# Cascade Contamination Rates
contamination_rate_general - general contamination rate
ego_contamination_rate - ego level contamination rate
memory_contamination_rate - memory level contamination rate
intellect_contamination_rate - intellect level contamination rate
mind_contamination_rate - mind level contamination rate
breath_contamination_rate - breath level contamination rate
body_contamination_rate - body level contamination rate

# Cascade Cleaning Rates
cleaning_effort_i - cleaning effort at level i (indexed)
cleaning_rate_i - cleaning rate at level i (indexed)

# Guna Components
rajas - rajas guna strength (0.0-1.0)
tamas - tamas guna strength (0.0-1.0)
sattva - sattva guna strength (0.0-1.0)
dominant_guna - currently dominant guna (rajas/tamas/sattva)
guna_total - sum of all gunas (should = 1.0)

# Raga/Dvesha System
raga - attachment to pleasure (0.0-1.0)
raga_strength - strength of raga (0.0-1.0)
dvesha - aversion to pain (0.0-1.0)
dvesha_strength - strength of dvesha (0.0-1.0)
equanimity - emotional equanimity (0.0-1.0)

=====
SECTION 20.5: EMOTION DERIVATION COMPONENTS (45 vars)
=====

# Emotion Master Formula Components
pure_love - pure love before cascade filtering
ego_config - ego configuration modifier
memory_activation - memory activation pattern
intellect_interpretation - intellect interpretation modifier
mind_proliferation - mind proliferation modifier
breath_pattern - breath pattern modifier
body_expression - body expression modifier
temporal_focus - temporal focus modifier
chakra_activation - chakra activation pattern
environmental_field - environmental field influence

# Specific Emotion Components
pos_memory - positive memory activation (0.0-1.0)
present_focus - focus on present (0.0-1.0)
grace_flow - grace flowing (0.0-1.0)
past_hurt - past hurt activation (0.0-1.0)

```

```

boundaryViolation
solarPlexusFire
separation
futureProj
survivalThreat
sepFromLoved
pastFocus
lossRecognition
scarcityPatterns
agitation
softenedBoundaries
unityExp

- boundary violation perception (0.0-1.0)
- solar plexus chakra fire (0.0-1.0)
- feeling of separation (0.0-1.0)
- future projection (0.0-1.0)
- survival threat perception (0.0-1.0)
- separation from loved (0.0-1.0)
- focus on past (0.0-1.0)
- recognition of loss (0.0-1.0)
- scarcity belief patterns (0.0-1.0)
- mental agitation (0.0-1.0)
- softened ego boundaries (0.0-1.0)
- unity experience (0.0-1.0)

```

```

# Specific Emotions (9 + rasas)
joy
anger
fear
sadness
jealousy
compassion

- joy emotion magnitude (0.0-1.0)
- anger emotion magnitude (0.0-1.0)
- fear emotion magnitude (0.0-1.0)
- sadness emotion magnitude (0.0-1.0)
- jealousy emotion magnitude (0.0-1.0)
- compassion emotion magnitude (0.0-1.0)

```

```

# Nine Rasas
shringaraIntensity
hasyaIntensity
karunaIntensity
raudraIntensity
veeraIntensity
bhayanakaIntensity
adbhutaIntensity
shantaIntensity
bibhatsaIntensity

- love/beauty rasa (0.0-1.0)
- joy/humor rasa (0.0-1.0)
- compassion rasa (0.0-1.0)
- anger/fury rasa (0.0-1.0)
- courage rasa (0.0-1.0)
- fear rasa (0.0-1.0)
- wonder rasa (0.0-1.0)
- peace rasa (0.0-1.0)
- disgust rasa (0.0-1.0)

```

SECTION 20.6: POMDP GAP DYNAMICS (10 vars)

```

realityGap
observationGap
beliefGap
pomdpSeverity
realState
believedState
observedState
mayaInducedGapMagnitude
precision
measurementAccuracy

- gap between real and believed (0.0-1.0)
- gap between real and observed (0.0-1.0)
- gap between believed and observed (0.0-1.0)
- overall POMDP severity (0.0-1.0)
- actual reality state
- what user believes is real
- what user can measure
- gap caused by maya (0.0-1.0)
- measurement precision (0.0-1.0)
- measurement accuracy (0.0-1.0)

```

SECTION 20.7: FIVE CIRCLES OF BEING (10 vars)

```

circleRadius
circleIRadius
personalCircleQuality
familyCircleQuality
socialCircleQuality
professionalCircleQuality
universalCircleQuality
influenceExtent
energyInvestment
timeAllocation

- influence extent of circle
- radius of circle i (indexed)
- quality of personal circle (0.0-1.0)
- quality of family circle (0.0-1.0)
- quality of social circle (0.0-1.0)
- quality of professional circle (0.0-1.0)
- quality of universal circle (0.0-1.0)
- extent of influence
- energy invested in circle
- time allocated to circle

```

SECTION 20.8: KARMA DYNAMICS (25 vars)

```

# Three Karma Types
sanchita
prarabdha
kriyamana

- accumulated karma (storage)
- active karma this life (allocated)
- karma being created now (real-time)

```

Karma Generation

```

karma_generation_rate          - dK/dt generation rate
karma_burning_rate            - karma dissolution rate
net_karma_change              - net change in karma
karma_created_j                - karma created by action j (indexed)

# Karma Burning
burn_rate                      - overall burning rate
burning_rate_i                 - burning rate for karma type i (indexed)
karma_resolution_rate          - resolution rate of karmic patterns

# Karma Activation
karma_activation_probability_at_time_t - probability karma activates at time t
karma_activation_probability_per_day   - daily activation probability
karma_pull                       - pull of karma on choices (0.0-1.0)
karma_match                      - match between karma and situation (0.0-1.0)
karma_weight_j                  - weight of karma j in decisions (indexed)
karma_constraint_i              - constraint imposed by karma i (indexed)

# Karma Types by Domain
physical_karma                 - karma in physical domain
emotional_karma                - karma in emotional domain
mental_karma                     - karma in mental domain
spiritual_karma                 - karma in spiritual domain
relational_karma                - karma in relational domain

# Collective Karma
collective_karma                - shared group karma
collective_karma_share           - individual's share of collective karma
inherited_karma                 - karma inherited from ancestors

```

SECTION 20.9: DEATH ARCHITECTURE (20 vars)

```

# Seven Death Types (D1-D7)
d1_physical_death_score        - physical death process strength (0.0-1.0)
d2_relationship_death_score     - relationship death strength (0.0-1.0)
d3_identity_death_score         - identity death strength (0.0-1.0)
d4_belief_system_death_score   - belief system death strength (0.0-1.0)
d5_desire_death_score          - desire death strength (0.0-1.0)
d6_separation_death_score      - separation death strength (0.0-1.0)
d7_ego_death_score              - ego death strength (0.0-1.0)

# Death Process Variables
active_death_type               - currently active death type (D1-D7)
death_depth                      - depth of death process (0.0-1.0)
death_depth_i                    - depth of death type i (indexed)
current_death_type               - current primary death process
death_architecture_active        - whether death architecture is active (boolean)

# Grace in Death
grace_availability               - grace available for death process (0.0-1.0)
grace_effectiveness              - grace effectiveness in death (0.0-1.0)
grace_probability                 - probability of grace intervention (0.0-1.0)

# Death-Related States
clinging_to_life                 - clinging to what's dying (0.0-1.0)
death_acceptance                  - acceptance of death process (0.0-1.0)
death_fear                        - fear of death/endings (0.0-1.0)
death_denial                      - denial of death process (0.0-1.0)
transformation_through_death     - transformation enabled by death (0.0-1.0)
resurrection                      - resurrection/rebirth after death (0.0-1.0)

```

SECTION 20.10: NETWORK & COLLECTIVE EFFECTS (30 vars)

```

# Network Structure
network_effect                   - network amplification effect
network_coherence                 - coherence across network (0.0-1.0)
network_amplification_factor     - amplification from network size

```

```

critical_mass - critical mass threshold (count)
critical_mass_threshold - threshold for breakthrough (count)
critical_mass_distance - distance to critical mass (count)
committed_count - count of committed individuals

# Collective Consciousness
collective_consciousness_level - average consciousness level of group
collective_intelligence - emergent group intelligence
collective_iq - collective IQ score
group_mind_activation - activation of group mind (0.0-1.0)
group_mind_iq - group mind IQ when activated
collective_capability - collective capability vs individual

# Collective Evolution
collective_evolution_rate - evolution rate of collective
group_evolution_rate - group evolution acceleration
collective_breakthrough_p - probability of collective breakthrough (0.0-1.0)
collective_breakthrough_probability - same as above (alt name)
collective_transformation_rate - transformation rate of collective

# Field Effects
field_strength - morphogenetic field strength
field_strength_for_pattern_x - field strength for specific pattern
morphogenetic_field_strength - morphic field strength
field_influence_on_individual - how field affects individual
individual_impact_on_collective - how individual affects collective

# Resonance & Coherence
resonance - resonance between entities (0.0-1.0)
resonance_ij - resonance between i and j (indexed)
coherence - overall coherence (0.0-1.0)
coherence_factor_i - coherence factor for element i (indexed)
pairwise_coherence_ij - coherence between i and j (indexed)
we_space_quality - quality of shared consciousness space (0.0-1.0)

=====
SECTION 20.11: QUANTUM CONSCIOUSNESS DYNAMICS (25 vars)
=====

# Superposition
superposition - consciousness superposition state
superposition_degree - degree of superposition (0.0-1.0)
superposition_state - specific superposition configuration

# Wave Function
consciousness_wave_equation -  $\hat{\psi}$  wave function
psi_magnitude - magnitude of  $\hat{\psi}$ 
psi_total - total consciousness wave
psi_final - final collapsed state
psi_we - collective wave function

# Collapse Mechanics
collapse_probability - probability of wave collapse (0.0-1.0)
collapse_trigger_function - function determining collapse
intentionalCollapse - intentional wave function collapse
collapse_probability_to_state_j - probability of collapsing to state j (indexed)
observer_effect - observer impact on reality
observer_impact_strength - strength of observer effect (0.0-1.0)

# Quantum Tunneling
tunneling_probability - probability of quantum tunneling (0.0-1.0)
p_tunnel - tunneling probability (alt name)
barrier_height - energy barrier height
barrier_constant - barrier constant  $\hat{L}$ 
barrier_width - width of barrier L

# Decoherence
decoherence_rate - rate of quantum decoherence
tau_decoherence - decoherence time constant

```

```

# Entanglement
entanglement_strength      - entanglement between systems (0.0-1.0)
mutual_information_between_individuals - shared quantum information

# Quantum Probability
state_probability_distribution_p_i - probability distribution over states
probability_density           - quantum probability density
probability_waves             - quantum probability waves

=====
SECTION 20.12: REALISM BLENDING (65 vars)
=====

# Realism Types (60 types from Master Realism Engine)
realism_i_activation         - activation of realism type i (indexed)
realism_i_weight              - weight of realism type i (indexed)
realism_blend                 - final blended realism output
final_realism                 - final computed realism
final_realism_blend           - complete blended realism

# Major Realism Categories
physicalist_realism          - materialist/physicalist view (0.0-1.0)
scientific_realism             - scientific worldview (0.0-1.0)
experiential_realism          - experience-based reality (0.0-1.0)
mystical_realism              - mystical/spiritual view (0.0-1.0)
pragmatic_realism             - practical/pragmatic view (0.0-1.0)
idealistic_realism             - idealist philosophy (0.0-1.0)
relational_realism             - relationship-based reality (0.0-1.0)
systemic_realism               - systems view (0.0-1.0)

# Specific Realisms
absolute_realism               - absolute truth view
relative_realism                - relativistic view
constructivist_realism          - socially constructed reality
phenomenological_realism        - phenomenological view
existential_realism              - existentialist view
transcendent_realism             - transcendent reality
immanent_realism                - immanent divinity
dharmaic_realism                 - dharma-based reality
karmic_realism                  - karma-based causation
graceful_realism                 - grace-infused reality
deterministic_realism            - deterministic worldview
probabilistic_realism            - probabilistic worldview
quantum_realism                  - quantum view
fractal_realism                  - fractal/holographic view
evolutionary_realism             - evolutionary perspective

# Domain-Specific Realisms
biological_realism              - biological domain
psychological_realism            - psychological domain
social_realism                   - social domain
cultural_realism                  - cultural domain
economic_realism                  - economic domain
political_realism                  - political domain
ecological_realism                  - ecological domain
cosmic_realism                   - cosmic/universal domain

# Practice-Related Realisms
meditative_realism                - meditation-enhanced reality
contemplative_realism              - contemplative view
shamanic_realism                   - shamanic worldview
devotional_realism                  - bhakti/devotional path
wisdom_realism                     - jnana/wisdom path
service_realism                      - seva/service orientation
witness_realism                     - witness consciousness view

# Consciousness-Level Realisms
survival_realism                   - S1 survival-based reality
seeking_realism                     - S2 desire-based reality
achievement_realism                  - S3 achievement-focused reality

```

```

service_realism          - S4 service-oriented reality
surrender_realism        - S5 surrender-based reality
witness_realism          - S6 witness-based reality
wisdom_realism           - S7 wisdom-integrated reality
unity_realism            - S8 unity consciousness reality

```

SECTION 20.13: TEMPORAL DYNAMICS (30 vars)

```

# Time Perception
subjective_time_rate      - rate of subjective time flow
time_perception            - how time is perceived
temporal_focus              - focus on past/present/future
time_anxiety                - anxiety about time (0.0-1.0)
timeless_awareness          - awareness beyond time (0.0-1.0)
time_transcendence          - transcendence of time (0.0-1.0)

# Time Coordinates
past                         - past temporal focus (0.0-1.0)
present                      - present temporal focus (0.0-1.0)
future                        - future temporal focus (0.0-1.0)
eternal                       - eternal/timeless focus (0.0-1.0)

# Time Dynamics
temporal_coherence          - coherence across time (0.0-1.0)
time_depth                    - depth of temporal awareness
subjective_time               - subjective experience of time
fundamental_time_unit         - basic time quantum
consciousness_time_unit       - consciousness-based time unit

# Kairos vs Chronos
chronos                      - clock time (linear)
kairos_experience             - kairos (opportune moment) experience (0.0-1.0)

# Evolution Over Time
ds_dt                          - sacred chain evolution rate (dS/dt)
dcleanliness_dt                - cleanliness change rate
dk_dt                          - karma generation rate
de_dt                          - energy change rate
da_dt                          - awareness growth rate
dtheta_dt                      - oscillation frequency (dθ/dt)

# Time-Related States
past_reality                   - reality as it was in past
present_reality                 - reality in present moment
future_reality                  - anticipated future reality
eternal_present                 - eternal now state
timeCollapse                   - collapse into eternal present

```

SECTION 20.14: EVOLUTION & TRANSFORMATION (40 vars)

```

# Evolution Rates
evolution_rate                  - overall evolution rate
consciousness_evolution_rate     - consciousness evolution rate
transformation_rate              - transformation rate
collective_evolution_acceleration - acceleration of collective evolution

# Evolution Triggers
consciousness_evolution_trigger - trigger for consciousness shift
experience_impact                - impact of experience on evolution
trigger_event_probability          - probability of trigger event (0.0-1.0)
trigger_event_match                - match between event and readiness (0.0-1.0)

# Breakthrough Dynamics
breakthrough_window_detection    - detection of breakthrough window
p_breakthrough                   - breakthrough probability (0.0-1.0)
breakthrough_tipping_point        - tipping point for breakthrough
quantum_leap_probability          - probability of quantum leap (0.0-1.0)

```

```

# Regression Dynamics
regression_depth           - depth of regression after breakthrough (0.0-1.0)
regression_pull             - pull toward old patterns (0.0-1.0)

# Spiral Evolution
spiral_path                 - spiral evolution trajectory
oscillation                  - oscillation pattern in evolution

# Transformation Magnitude
transformation_magnitude     - magnitude of transformation
required_transformation      - transformation required for goal
transformation_completion    - completion percentage (0.0-1.0)
transformation_readiness     - readiness for transformation (0.0-1.0)

# Growth Phases
exponential_growth_rate      - rate during exponential phase
exponential_growth_phase     - in exponential growth (boolean)
saturation_phase              - in saturation phase (boolean)
plateau                       - plateau in growth
time_plateau                  - duration of plateau

# Integration
integration_period            - integration time after breakthrough
post_breakthrough_integration_time - time needed for integration

# Readiness
readiness                      - overall readiness for shift (0.0-1.0)
readiness_to_face               - readiness to face challenge (0.0-1.0)
ripeness                        - ripeness for transformation (0.0-1.0)

# Change Dynamics
change                          - magnitude of change
change_force                    - force driving change
change_impulse                  - impulse for change
resistance                      - resistance to change (0.0-1.0)
allowing                         - allowing change (0.0-1.0)

# Velocity & Acceleration
transformation_velocity         - velocity of transformation
acceleration                     - acceleration of evolution
velocity                         - velocity of change

=====
SECTION 20.15: MEASUREMENT & PRECISION (20 vars)
=====

# Measurement Quality
measurement_precision            - precision of measurement (0.0-1.0)
measurement_accuracy             - accuracy of measurement (0.0-1.0)
measurement_resolution            - resolution of measurement
measurement_bias                 - bias in measurement

# Observer Effects
observer_bias_i                  - observer bias at level i (indexed)
measurement_operator              - quantum measurement operator
observer                         - observer configuration

# Calibration
device_calibration                - calibration of measuring device
calibration_error                 - error in calibration
zero_detection                   - detection of zero state

# Confidence
confidence                        - confidence in measurement (0.0-1.0)
confidence_ucb                    - UCB-based confidence
derived_confidence                - confidence derived from inputs
input_confidence_product          - product of input confidences

# Accuracy Metrics

```

```

accuracy                               - overall accuracy (0.0-1.0)
base_precision                         - baseline precision
minimum_distinguishable_difference     - minimum detectable difference

# Error Terms
systematic_error                      - systematic error component
random_error                           - random error component
noise                                   - noise in measurement

=====
SECTION 20.16: PLATFORM CONSTRAINTS (40 vars)
=====

# TikTok
tiktok_constraints                    - TikTok platform constraints
tiktok_fitness_score                  - fit score for TikTok (0.0-1.0)
hook_time                             - time for hook (seconds)
video_length_optimal                 - optimal video length (seconds)

# Twitter/X
twitter_fitness_score                - fit score for Twitter (0.0-1.0)
characters_per_tweet                  - character count
hashtag_max                           - max hashtags allowed
hashtag_optimal                       - optimal hashtag count
media_per_tweet                        - media items per tweet

# LinkedIn
linkedin_fitness_score               - fit score for LinkedIn (0.0-1.0)
linkedin_constraints                  - LinkedIn platform constraints
professional_tone                     - professional tone requirement (0.0-1.0)

# Instagram
instagram_fitness_score              - fit score for Instagram (0.0-1.0)
aspect_ratio                           - image aspect ratio
captions_required                     - captions required (boolean)

# YouTube
youtube_fitness_score                - fit score for YouTube (0.0-1.0)
thumbnail_click_rate_target          - thumbnail click rate target (0.0-1.0)
timestamps_required                   - timestamps required (boolean)
show_notes_length                     - show notes length (words)

# Email
email_fitness_score                  - fit score for email (0.0-1.0)
email_constraints                     - email platform constraints
subject_max                            - max subject line length
preview_max                            - max preview text length
scan_time_target                      - target scan time (seconds)

# Blog
blog_fitness_score                   - fit score for blog (0.0-1.0)
reading_level                          - target reading level
word_difficulty_level                - word difficulty (grade level)
paragraph_max_sentences               - max sentences per paragraph
subheadings_every                     - subheading frequency (paragraphs)

# Podcast
podcast_fitness_score                - fit score for podcast (0.0-1.0)
audio_quality_min                    - minimum audio quality
audio_required                        - audio required (boolean)
intro_max                             - max intro length (seconds)

# Meeting/Presentation
meeting_constraints                   - meeting platform constraints
meeting_effectiveness                 - meeting effectiveness score (0.0-1.0)
attention_duration                   - attention span duration (minutes)
slide_max                             - max slides allowed

# Academic
academic_fitness_score               - fit score for academic (0.0-1.0)

```

```

academic_paper_constraints      - academic constraints
citations_style                - citation style required
evidence_requirement           - evidence requirement level
=====
SECTION 20.17: COHERENCE & ALIGNMENT (25 vars)
=====
# Coherence Types
coherence                      - overall coherence (0.0-1.0)
coherence_multiplier            - coherence amplification factor
coherence_achieved              - achieved coherence level
coherence_score                 - coherence quality score
bidirectional_coherence        - two-way coherence (0.0-1.0)
operator_coherence              - coherence among operators (0.0-1.0)
temporal_coherence             - coherence across time (0.0-1.0)
collective_field_coherence     - coherence of collective field (0.0-1.0)

# Alignment Types
alignment                       - overall alignment (0.0-1.0)
alignment_factor                - alignment amplification
alignment_amplification         - amplified alignment
dharma_alignment                - alignment with dharma (0.0-1.0)
dharma_alignment_i              - dharma alignment at level i (indexed)
alignment_with_dharma           - same as dharma_alignment
action_alignment                - action-intention alignment (0.0-1.0)
thought_word_alignment          - thought-word alignment (0.0-1.0)
words_alignment                 - words alignment with truth (0.0-1.0)
actions_alignment               - actions alignment with words (0.0-1.0)
purpose_alignment               - alignment with purpose (0.0-1.0)
value_alignment                 - alignment with values (0.0-1.0)

# Pathway Alignments
witnessing_pathway_score       - witnessing pathway alignment (0.0-1.0)
creating_pathway_score          - creating pathway alignment (0.0-1.0)
embodying_pathway_score         - embodying pathway alignment (0.0-1.0)

# Integrity
integrity                       - overall integrity (0.0-1.0)
actions_integrity               - integrity of actions (0.0-1.0)
=====

SECTION 20.18: GRACE MECHANICS (20 vars)
=====
# Grace Availability
grace_availability              - available grace (0.0-1.0)
grace_effectiveness              - grace effectiveness (0.0-1.0)
grace_probability                - probability of grace (0.0-1.0)
grace_factor                     - grace amplification factor
grace_field                       - grace field strength
network_grace_field              - network-level grace field

# Grace Timing
grace_timing_probability         - probability of grace at right time (0.0-1.0)
grace_timing_window               - window for grace intervention
divine_timing                     - divine timing alignment (0.0-1.0)

# Grace Modification
grace_modification_i             - grace modification at level i (indexed)
grace_i                           - grace at level i (indexed)
grace_multiplication_factor      - grace amplification factor

# Grace Reception
grace_reception                  - receptivity to grace (0.0-1.0)
grace_flow                         - grace flowing (0.0-1.0)
grace_connection                  - connection to grace (0.0-1.0)

# Grace Effects
grace_acceleration               - acceleration from grace
grace_effectiveness_personal     - personal grace effectiveness

```

```

grace_effectiveness_collective - collective grace effectiveness
grace_on_collective           - grace affecting collective
grace_field_collective        - collective grace field

=====
SECTION 20.19: ADDITIONAL OPERATORS & COEFFICIENTS (50 vars)
=====

# Klesha System (5 afflictions)
avidya_strength              - ignorance strength (0.0-1.0)
asmita_strength               - ego identification strength (0.0-1.0)
raga_strength                 - attachment strength (0.0-1.0)
dvesha_strength               - aversion strength (0.0-1.0)
abhinivesha_strength          - clinging to life strength (0.0-1.0)

# Interaction Coefficients
gamma_ij                      - synergy coefficient between operators i,j
delta_ij                       - interference coefficient between operators i,j
operator_interaction_effect   - combined interaction effect
combined_effect_score          - total combined effect score

# Rate Constants
k1                            - rate constant 1 (awareness)
k2                            - rate constant 2 (practice)
k3                            - rate constant 3 (grace)
k4                            - rate constant 4 (resistance)
k_burn                         - karma burning rate constant
k_B                            - Boltzmann-like constant

# Coupling Strengths
coupling_strength              - coupling between systems
bidirectional_coupling_strength - bidirectional coupling

# Complexity Factors
complexity                     - system complexity measure
complexity_handled             - complexity that can be handled
complexity_preservation         - preservation of complexity

# Harmonic Components
f0                             - fundamental frequency
harmonic_pattern               - harmonic pattern structure
harmonic_strength_n            - strength of harmonic n (indexed)
primary_harmonic                - primary harmonic component
second_harmonic                 - second harmonic component
third_harmonic                  - third harmonic component

# Resonance Frequencies
omega                          - angular frequency  $\omega$ 
omega_0                         - natural frequency
omega_n                         - harmonic frequency n (indexed)
omega_osc                        - oscillation frequency
f_beat                          - beat frequency

# Decay & Growth Constants
tau                            - time constant  $\tau$ 
tau_decay                       - decay time constant
tau_c                           - critical time constant
tau_decoherence                 - decoherence time constant
tau_life                        - lifetime constant
tau_window                       - window time constant

# Phase Parameters
phi                            - phase angle  $\phi$ 
phi_i                           - phase of component i (indexed)
phi_k                           - phase of k (indexed)
phi_n                           - phase of harmonic n (indexed)

# Width & Spread
sigma                          - standard deviation  $\sigma$ 
sigma_0                         - base standard deviation

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sigma_i - sigma for component i (indexed)
sigma_ij - correlation coefficient between i,j
width - distribution width
barrier_width - quantum barrier width L

# Amplitude Parameters
amplitude_i - amplitude of component i (indexed)
a_n - amplitude of mode n (indexed)
a_total - total amplitude

=====
SECTION 20.20: H-LEVEL (HIERARCHY) VARIABLES (20 vars)
=====

# H-Level Scores (8 levels)
h1_personal_score - H1 personal level score (0.0-1.0)
h1_score - H1 score (alt name)
h2_interpersonal_score - H2 interpersonal level score (0.0-1.0)
h2_score - H2 score (alt name)
h3_collective_score - H3 organizational level score (0.0-1.0)
h3_score - H3 score (alt name)
h4_cultural_score - H4 industry/cultural level score (0.0-1.0)
h4_score - H4 score (alt name)
h5_archetypal_score - H5 societal level score (0.0-1.0)
h5_score - H5 score (alt name)
h6_universal_score - H6 humanity level score (0.0-1.0)
h6_score - H6 score (alt name)
h7_absolute_score - H7 consciousness level score (0.0-1.0)
h7_score - H7 score (alt name)
h8_void_score - H8 void/totality level score (0.0-1.0)
h8_score - H8 score (alt name)

# H-Level Detection
h_level_detection_from_query - detected H-level from query text
hierarchical_multiplication_factor -  $10^{(H-1)}$  scaling factor
scope_indicators - count of scope-indicating words
multi_level_query - query spans multiple H-levels (boolean)

=====
SECTION 20.21: PANCHAKRITYA (FIVE ACTS) (10 vars)
=====

# Five Divine Acts
srishhti_creation_strength - strength of creation act (0.0-1.0)
sthiti_maintenance_strength - strength of maintenance act (0.0-1.0)
samhara_dissolution_strength - strength of dissolution act (0.0-1.0)
tirodhana_concealment_strength - strength of concealment act (0.0-1.0)
anugraha_grace_strength - strength of grace act (0.0-1.0)

# Act Balance
panchakritya_balance - balance across five acts (0.0-1.0)
act_balance_score - balance score for five acts
current_dominant_act - currently dominant act
dominant_act - dominant act (alt name)
five_acts_integration - integration of five acts (0.0-1.0)

=====
SECTION 20.22: ADVANCED MATHEMATICAL STRUCTURES (30 vars)
=====

# Manifold & Geometry
consciousness_manifold_metric - metric tensor for consciousness manifold
geodesic_equation - geodesic path equation
riemann_curvature_tensor - curvature of consciousness space
christoffel_symbols - connection coefficients
parallel_transport - parallel transport operator

# Topology
bettis_numbers - topological invariants
euler_characteristic - topological Euler characteristic
fundamental_group - fundamental group of space
homotopy_equivalence - homotopy between states

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homology_groups - homology groups

# Category Theory
morphisms - morphisms between objects
composition - composition of morphisms
colimit - colimit in category
pushout - pushout in category
pullback - pullback in category

# Complex Analysis
consciousness_complex_function - consciousness in complex plane
poles - poles of complex function
residue_theorem_application - residue theorem use
conformal_mapping_of_consciousness_space - conformal map

# Differential Geometry
lie_algebra_commutator - Lie bracket [X,Y]
infinitesimal_generator - infinitesimal generator of group
consciousness_symmetry_group - symmetry group
noether_theorem_application - conservation from symmetry

# Spectral Analysis
spectral_triple - noncommutative geometry structure
connes_distance_formula - distance in spectral triple

# Information Theory
information_content - information content measure
information_gain_through_evolution - information gained
entropy - entropy/uncertainty measure
mutual_information_between_individuals - shared information

=====
SECTION 20.23: STOCHASTIC & PROBABILISTIC (25 vars)
=====

# Probability Distributions
probability_i - probability of state i (indexed)
p_i - probability (alt name)
probability_density - probability density function
state_probability_distribution_p_i - probability distribution

# Markov Processes
markov_chain_state_transitions - Markov transition matrix
branch_probability_i - branching probability i (indexed)
path_selection - selected path
path_selection_probability - probability of path selection
choice_probability_at_level_i - choice probability at cascade level i

# Stochastic Components
random_component - random/stochastic component
stochastic_term - stochastic term in equation
random_error - random error component

# Prior & Posterior
prior_probability_i - prior probability of state i (indexed)
bayesian_network - Bayesian network structure

# Jump Processes
jump_process_for_breakthroughs - jump process dynamics
p_jump - jump probability (0.0-1.0)
quantum_jump_probability - quantum jump probability

# Logistic Growth
logistic_growth_model - logistic growth dynamics
critical_density - critical density threshold

# Probabilities by Type
collapse_probabilities - all collapse probabilities
p_breakthrough - breakthrough probability
p_threshold - threshold crossing probability

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p_window - window availability probability
p_cascade - cascade probability
p_emerge - emergence probability
p_grace - grace intervention probability
=====

SECTION 20.24: CAUSALITY & LOGIC (15 vars)
=====

# Bidirectional Causation
causation_strength_forward - forward causation strength (0.0-1.0)
causation_strength_backward - backward causation strength (0.0-1.0)
reality_manifestation_rate - rate reality manifests from consciousness
consciousness_evolution_trigger - trigger for consciousness shift

# Causal Chains
causal_chain - sequence of causal links
feedback_loop_gain - amplification in feedback loop
loop_gain - loop gain factor

# DAG Structure
dag - directed acyclic graph
causal_dependencies - causal dependency structure
computation_sequence - computation order

# Logic Types
logic - logical reasoning strength (0.0-1.0)
sequential_thinking - sequential logic capacity (0.0-1.0)
paradoxical_realism - ability to hold paradox (0.0-1.0)

# Determinism
determinism - deterministic component (0.0-1.0)
free_will - free will component (0.0-1.0)
no_free_will - no free will component (0.0-1.0)
=====

SECTION 20.25: MISCELLANEOUS CRITICAL VARIABLES (40 vars)
=====

# Attention & Focus
attention - attention capacity (0.0-1.0)
attention_focus - focus of attention
attention_quality - quality of attention (0.0-1.0)
attention_stability - stability of attention (0.0-1.0)
focus_intensity - intensity of focus (0.0-1.0)
focus_stability - stability of focus (0.0-1.0)

# Awareness Types
awareness - overall awareness (0.0-1.0)
awareness_breadth - breadth of awareness
awareness_during_action - awareness while acting (0.0-1.0)
awareness_exponent - awareness amplification exponent
awareness_of_choices - awareness of available choices (0.0-1.0)
detached_awareness - witness-like detached awareness (0.0-1.0)

# Intention & Will
intention_clarity - clarity of intention (0.0-1.0)
intention_purity - purity of intention (0.0-1.0)
will_strength - strength of will (0.0-1.0)
will_power - willpower available (0.0-1.0)

# Trust & Surrender
trust - trust level (0.0-1.0)
trust_in_process - trust in process (0.0-1.0)
trust_in_unknown - trust in unknown (0.0-1.0)
surrender - surrender level (0.0-1.0)
surrender_depth - depth of surrender (0.0-1.0)
surrender_of_power - surrendering control (0.0-1.0)
surrender_to_divine - surrender to divine (0.0-1.0)

# Wisdom & Understanding

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wisdom
understanding
discrimination_capacity
discernment_capacity
    - wisdom level (0.0-1.0)
    - understanding depth (0.0-1.0)
    - capacity to discriminate (0.0-1.0)
    - discernment capacity (0.0-1.0)

# Flow & Ease
flow
creative_flow
effortless
natural_unfolding
    - flow state (0.0-1.0)
    - creative flow (0.0-1.0)
    - effortlessness (0.0-1.0)
    - natural unfolding (0.0-1.0)

# Mystery & Unknown
mystery_factor
mystery_appreciation
divine_mystery
uncertainty
    - mystery/unknown component (0.0-1.0)
    - appreciation of mystery (0.0-1.0)
    - divine mystery component (0.0-1.0)
    - uncertainty level (0.0-1.0)

# Openness & Receptivity
openness
receptivity
allowing
    - openness to experience (0.0-1.0)
    - receptivity to input (0.0-1.0)
    - allowing what is (0.0-1.0)

# Agency & Power
agency
power
creative_power
    - sense of agency (0.0-1.0)
    - personal power (0.0-1.0)
    - creative power (0.0-1.0)

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TOTAL NEW VARIABLES ADDED: ~900+

INTEGRATION NOTES:

1. All variables use underscore_case for consistency
2. Scores and levels use 0.0-1.0 range unless specified
3. Indexed variables use _i, _j, _k, _n suffixes
4. Rates use _rate suffix
5. Time derivatives use d*/dt notation
6. Greek symbols preserved where used (î„, î›206, î›211, î›204, î›203, î°)
7. Collision-prone symbols use full names (M_maya vs M_manifest)

IMPLEMENTATION GUIDANCE:

- Store all in flat database schema with underscores
- Use suffixes for type clarity (_score, _rate, _prob, _strength)
- Maintain operator disambiguation (existing collision map)
- Pass full variable context to LLM for calculations
- Variables are computed by Claude API, never hardcoded in backend

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END OF OOF NOMENCLATURE APPENDIX

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