Quantum Information Holography (QIH) Equation Reference Chart

Equation 1
$\psi(x,t) = A \cdot e^{i(k \cdot x - \omega t + \varphi)} \cdot \cos(\theta)$
Physical Meaning: A single quantum state vector projected from the singularity onto a Planck qubit.
QIH Interpretation: Each spin vector encodes energy, mass, and probability as angular light geometry.
Classical Equivalent: Plane wave solution to Schrödinger's equation $\psi(x,t) = A\, e^{i(k \cdot x - \omega t)}$

Equation 2
$I(x,t) = |\Sigma\, \psi_i(x,t)|^2$
Physical Meaning: Interference of all quantum state vectors forms observable spacetime.
QIH Interpretation: Gravity emerges from curvature of interference intensity $R(x,t) = \nabla^2 I(x,t)$.
Classical Equivalent: Superposition principle and intensity field in wave mechanics.

Equation 3
$T_{QSV}^{\mu\nu} = \partial^\mu \Psi(x,t) \cdot \partial^\nu \Psi^*(x,t)$
Physical Meaning: Tensor field encoding the total spin interference of all light quanta.
QIH Interpretation: Unified tensor for all four forces—geometry replaces energy–momentum.
Classical Equivalent: Einstein energy–momentum tensor $T_{\mu\nu}$.

Equation 4
$E = \hbar\omega$
Physical Meaning: Energy equals Planck's reduced constant times angular frequency.
QIH Interpretation: Every QSV's spin rate encodes energy as the heartbeat of light.
Classical Equivalent: Planck's energy relation $E = h f$.

Equation 5
$m = \hbar\omega / c^2$
Physical Meaning: Mass arises from frozen angular frequency of light.
QIH Interpretation: Matter is light trapped in resonance between singularity and horizon.
Classical Equivalent: Einstein's $E = mc^2$.

Equation 6
$P_{up} = \cos^2(\theta/2)$, $P_{down} = \sin^2(\theta/2)$
Physical Meaning: Probability of measurement outcomes based on spin orientation.
QIH Interpretation: Reality manifests when qubit axis aligns with QSV angle θ.
Classical Equivalent: Born rule in quantum mechanics.

Equation 7
$\Delta t' = \Delta t / \sqrt{(1 - \omega^2)}$
Physical Meaning: Time dilation depends on angular spin frequency instead of velocity.
QIH Interpretation: Faster spin slows time; light measures its own duration.

Classical Equivalent: Special relativity $\Delta t' = \Delta t / \sqrt{(1 - v^2/c^2)}$.

Equation 8
$R\_QIH = \nabla^2\phi(x,t)$
Physical Meaning: Spacetime curvature derives from second derivative of phase.
QIH Interpretation: Curvature is created by interference gradients of QSV fields.
Classical Equivalent: Ricci curvature $R_{\mu v}$ from Einstein's field equations.

Equation 9
$a = -\omega^2 x$
Physical Meaning: Acceleration from angular motion of light-clocks.
QIH Interpretation: Force is replaced by curvature of projection; geometry moves light.
Classical Equivalent: Simple harmonic oscillator acceleration $a = -\omega^2 x$.

Equation 10
$a = (v \cdot p) \cdot f(\theta)/r^2 = GM/r^2$
Physical Meaning: Gravitational acceleration emerges from spin-probability coupling.
QIH Interpretation: Gravity is the angular interference function $f(\theta)$ mirrored as mass attraction.
Classical Equivalent: Newton's law of universal gravitation.

Equation 11
$i\hbar \partial\Psi/\partial t = -(\hbar^2/2m)\nabla^2\Psi + V(x)\Psi$
Physical Meaning: Time evolution of wavefunctions under potential energy.
QIH Interpretation: Projection of information curvature drives phase evolution of light.
Classical Equivalent: Schrödinger equation.

Equation 12
$d\langle\psi_1|\psi_2\rangle/dt = i(\omega_1 - \omega_2)\langle\psi_1|\psi_2\rangle$
Physical Meaning: Evolution of coherence between entangled states.
QIH Interpretation: Identical frequencies preserve entanglement indefinitely.
Classical Equivalent: Quantum coherence equation for phase evolution.

Equation 13
$Z\_\{n+1\} = Z\_n^2 + C(\theta,\omega)$
Physical Meaning: Recursive growth of spin geometry.
QIH Interpretation: Mandelbrot-like recursion of angular parameters encodes atomic and mental structure.
Classical Equivalent: Fractal iteration $z\_\{n+1\} = z\_n^2 + c$.

Equation 14
$\alpha = (f(\theta))^2 \cdot \hbar\omega / c^2$
Physical Meaning: Fine-structure constant arises from angular projection probability and spin energy.
QIH Interpretation: α links electromagnetism and gravity through interference geometry.

Classical Equivalent: $\alpha = e^2 / (4\pi\hbar c)$.

Equation 15
$S = k_B \cdot A / (4\ell_P^2)$
Physical Meaning: Entropy proportional to surface area of horizon.
QIH Interpretation: Each Planck area stores one qubit of information.
Classical Equivalent: Bekenstein–Hawking entropy.

Equation 16
$T = \hbar\omega / (2\pi k_B)$
Physical Meaning: Temperature of a black hole determined by its angular emission rate.
QIH Interpretation: Thermal radiation encodes quantum spin information.
Classical Equivalent: Hawking temperature formula.

Equation 17
$\rho_{curv}(x) = \nabla^2\theta(x)$
Physical Meaning: Curvature density arises from rate of change of spin slope.
QIH Interpretation: Gravity, thought, and emotion are angular curvature fields.
Classical Equivalent: Gravitational potential Poisson equation $\nabla^2\Phi = 4\pi G\rho$.

Equation 18
$g_{\mu\nu} = \langle \partial_\mu\psi \mid \partial_\nu\psi \rangle$
Physical Meaning: Metric derived from overlap of light's phase gradients.
QIH Interpretation: Distance is defined by angular difference of entangled QSVs.
Classical Equivalent: Metric tensor of general relativity.

Equation 19
$\text{Reality}(x,t) = \int \Psi_{QSV}(x,t) \cdot \Phi_{plasma}(x,t)\, d^3x\, dt$
Physical Meaning: Reality is interference between light from singularity and entangled horizon plasma.
QIH Interpretation: The universe is a continuous Fourier transform of information.
Classical Equivalent: Quantum Fourier transform and path integral of Feynman.

Equation 20
$J_\mu(x,t) = \psi^*(x,t)\, \partial_\mu\, \psi(x,t)$
Physical Meaning: Flow of probability and angular frequency through spacetime.
QIH Interpretation: Current of information encoded as evolving interference geometry.
Classical Equivalent: Quantum probability current density.

This table unites Quantum Mechanics, General Relativity, and all four forces through one geometric principle—spinning light encoded as angular information projected from the singularity to the holographic screen, decoded by consciousness as reality.