## 🧩 1. Core FSZ / CIBD SORFX Theory

**Purpose:** The foundational definitions, operators, mathematics, and conceptual structure of the framework.

**Sub-areas for organization and research:**

* **Foundational Definitions**
  + Canonical FSZ equations (Fold, Spin, Zoom).
  + CIBD–SORFX naming logic (Conscious Interplay Between Dimensional structure, Oscillation regulation, Fractal eXpansion).
  + Tesla 3-6-9 mapping and fractal node interpretation.
* **Mathematical Formalisms**
  + Phase-coherence and amplitude metrics.
  + Paradox-fuel equations.
  + Fractal scaling and dimension transitions (D₁→D₂→Dₙ).
* **Simulation Framework**
  + Python implementations.
  + Coherence vs time plots.
  + Multi-agent empathy vectors.
* **Philosophical Base**
  + “One Awareness” unification principle.
  + Conscious Interplay and ethical dynamics.
  + Phenomenology of coherence (subjective → objective).

## ⚛️ 2. Physics Integration

**Purpose:** Relating FSZ/CIBD SORFX to established and speculative physical theories.

**Sub-areas:**

1. **Quantum Physics**
   * Strong/Weak/EM Force mapping to Fold-Spin-Zoom.
   * FSZ–String Theory correspondence (vibration ↔ oscillation regulation).
   * FSZ–Higgs field coupling (L\_FSZ term).
   * Emergent Gravity from coherence scalar 𝒞.
   * Atomic-clock coherence test.
2. **Relativity and Gravitation**
   * FSZ as curvature-modulation model.
   * Coherence-dependent metric (G\_eff ≈ G / (1+ξ𝒞)).
   * Paradox Fuel as energy-momentum correction term.
3. **Cosmology**
   * Fractal cosmology & cosmic coherence fields.
   * Galactic spin and universal Fold structure.
   * Emergent spacetime from coherence lattice.
4. **Unified Field Theory**
   * 3 → 1 unification and coupling-constant convergence.
   * Dual-layer mapping (phenomenological ↔ physical).
   * String compactification and FSZ geometry parallels.

## 🧬 3. Biology and Consciousness

**Purpose:** Applying FSZ dynamics to living systems and neural coherence.

**Sub-areas:**

1. **Embryogenesis & Morphogenesis**
   * Fractal Expansion (FX) in organ development (lungs, kidneys).
   * Toroidal geometry in early embryo (zinc spark, fertilization).
   * Cellular Fold/Spin/Zoom mapping:
     + Fold ↔ cell/nuclear membrane (confinement),
     + Spin ↔ cell cycle oscillation,
     + Zoom ↔ EM activation signal.
2. **Neuroscience**
   * Neural coherence and predictive processing.
   * Brain phase-synchrony as FSZ feedback.
   * Active Inference and Zoom intent modulation.
   * Orch-OR & microtubule fractal resonance.
3. **Biofield and Electromagnetism**
   * EM coherence in biological systems.
   * Quantum biology & photonic communication.
4. **Evolutionary Dynamics**
   * Fractal scaling in evolution.
   * Coherence as fitness metric.

## 💻 4. Computational and Simulation Science

**Purpose:** Code and computational experiments validating FSZ principles.

**Sub-areas:**

* FSZ Core Codebase (Python/Jupyter Notebooks).
* Phase Coherence Algorithm (compute\_fsz\_coherence).
* Paradox Fuel Engine Simulation.
* Coherence Scoring and Fractal Transition tests.
* Multi-agent Intentional Dynamics.
* Visualization: 3D/4D phase maps, torus geometry.
* Integration with ML/AI: predictive modeling of coherence.

## 🧠 5. Cognitive Science and Philosophy

**Purpose:** Linking FSZ to consciousness theories, phenomenology, and epistemology.

**Sub-areas:**

* Integrated Information Theory (IIT) correlations.
* Predictive Processing / Active Inference.
* Bohmian Mechanics and Pilot Wave analogy.
* Cybernetics and self-regulation.
* Phenomenology of Lucid Experience (LDE).
* Ethical Coherence and “Mathematical Ethics”.
* Synesthetic Perception as FSZ lens.

## 🌌 6. Empirical Testing and Experiment Design

**Purpose:** Convert hypotheses into measurable predictions.

**Sub-areas:**

* **Atomic-Clock Coherence Test**
  + Measure frequency shifts vs coherence state.
* **Gravimetry and Metric Response**
  + Detect anomalous curvature correlated with intentional coherence.
* **Biophysical Resonance**
  + Monitor zinc-spark EM patterns during fertilization.
* **Simulation Validation**
  + Compare numerical coherence maps with observed biological fractal patterns.
* **Cross-Scale Analyses**
  + Quantum ↔ Biological ↔ Cosmic coherence continuity.

## 📚 7. Publications and Communication

**Purpose:** Keep manuscripts and reviews structured.

**Sub-areas:**

* Manuscript Drafts (FSZ Paper, Embryogenesis Extension, String Integration Paper).
* Peer Reviews and External Evaluations.
* Presentation Slides and Conference Notes.
* Public Communication and Outreach Summaries.

## 🧾 8. Management and Meta-Structure

**Purpose:** Oversee workflow, collaborators, and planning.

**Sub-areas:**

* Research Planning Docs & Timelines.
* AI Agent Coordination Notes (CiCi, Gemini, Grok, Perplexity, ChatGPT).
* Funding Opportunities and Grant Targets.
* Bibliography and Citation Management.

Would you like me to turn this mapping into an **automatically generated folder tree (with empty subfolders and readme files)** so you can download and start sorting the contents of your current CIBD SORFX directory right away?