Foundations Series | Reference

CPP Glossary and Ontological Reference

Complete term definitions for the CPP framework

Thomas Lee Abshier, ND

Co-author: Claude Sonnet (Anthropic)

Hyperphysics Institute | 2026

Abstract

Comprehensive glossary of all terms used in the CPP paper series. Covers particle structural factors, Standard Model particle descriptions, geometric terms (600-cell, Capotauro, SSV), ZBW oscillation modes, and Dipole Sea terminology.

1. Particle Structural Factors

- Central unpaired CP: core of every particle.
- Polarized DP cloud: organized dipoles surrounding central CP.
- Cage: geometric shell (tetrahedral, icosahedral, dodecahedral).
- Orbital ZBW DP: bound circular orbit around cage.
- Linear ZBW DP: oscillation along a lattice axis.

2. Standard Model Particles in CPP

- Electron: single eCP + eDP cloud + ZBW orbit.
- Muon: eCP + tetrahedral cage + larger cloud.
- Tau: eCP + icosahedral cage + largest cloud.

- Quarks: qCP + nested cages per generation.
- Neutrinos: unbound ZBW modes with sigma suppression.
- W boson: ribbon-like qDP chain. Z: icosahedral cage. Higgs: dodecahedral condensate.

3. Geometric Terms

- 600-cell: 4D polytope, 120 vertices, golden-ratio edge lengths.
- Capotauro: primordial symmetry-breaking event.
- SSV: Space Stress Vector field.
- Golden ratio phi: appears in edge lengths, layer scaling.
- Nk: cage occupancy number.

4. ZBW and Dipole Sea Terms

- ZBW modes: orbital (d=0), linear (d=1), unbound (d=3).
- SSV gradient flip: drives oscillation phase reversal.
- Organizational energy: mass equivalent of sea organization.
- Entropic pressure: sea randomization opposing organization.

References

[1] Abshier, T.L. (2025). Conscious Point Physics: Foundations. viXra preprint.

[2] Abshier, T.L. (2026). Standard Model Emergence in the 600-Cell Lattice. CPP Series.

[3] Particle Data Group (2024). Review of Particle Physics. PTEP 2024.

[4] Conway, J.H. & Sloane, N.J.A. (2008). 600-Cell Polytope Symmetries.