Quantum Retrocausality Report

1. Introduction

Quantum mechanics has long challenged classical intuitions about time, causality, and the flow of information. In recent years, retrocausal models and interpretations asserting time symmetry have gained renewed interest as researchers strive to reconcile nonlocal quantum phenomena with relativistic causality.

Within this vibrant context, the Quantum-Informational History Optimization and Retrocausality (QIHOT) framework has emerged as a novel attempt to unify quantum mechanics and information theory via a global retrocausal optimization principle.

Key Objectives

- Analyze QIHOT within the broader landscape of retrocausal approaches
- Compare with established interpretations (TI, TSVF)
- Evaluate potential to resolve foundational puzzles
- Examine experimental implications