

LSC 4.2 ULTRA – QUE Branch

LSC 4.2 ULTRA – QUE (Quantum Branch)

This model replaces classical interaction with quantum decoherence effects.

Core Concept:

PBH act as quantum information nodes affecting neutrino phase coherence.

Mechanism:

Neutrino wavefunction interacts with spacetime fluctuations induced by PBH.

Effect:

Loss of coherence modifies oscillation probabilities.

Key Idea:

Interaction is non-local and does not require large mass density.

Prediction:

Irregular neutrino flavor distributions independent of classical matter density.

Conclusion:

PBH regulate neutrinos through quantum information loss.