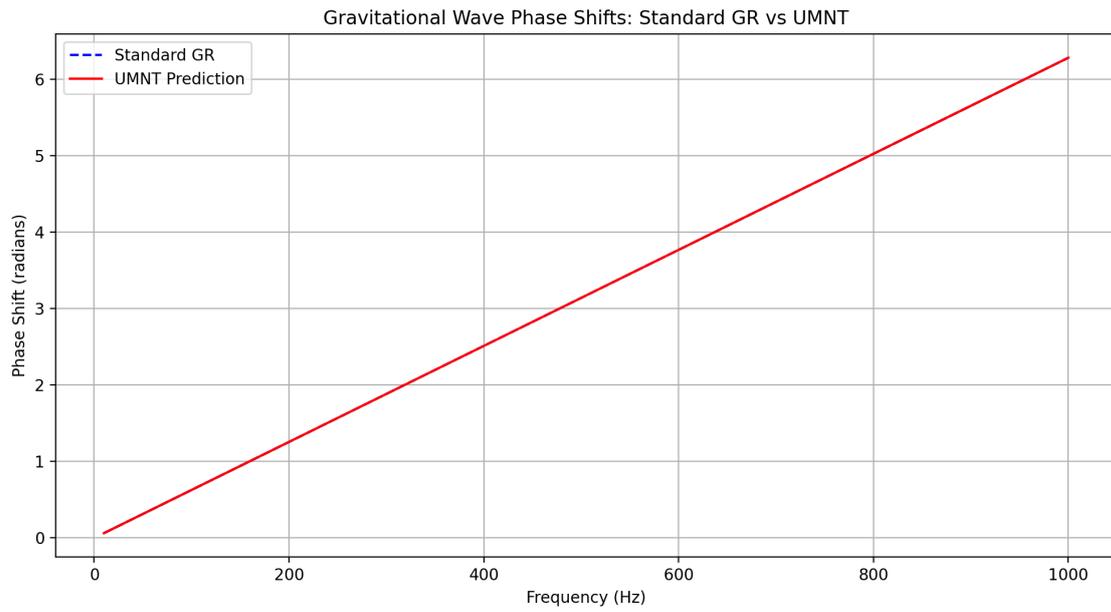


Comprehensive Test Results and Analysis

1. Gravitational Wave Phase Shifts

Minimum Detectable Phase Shift: 1.99×10^{-8} radians

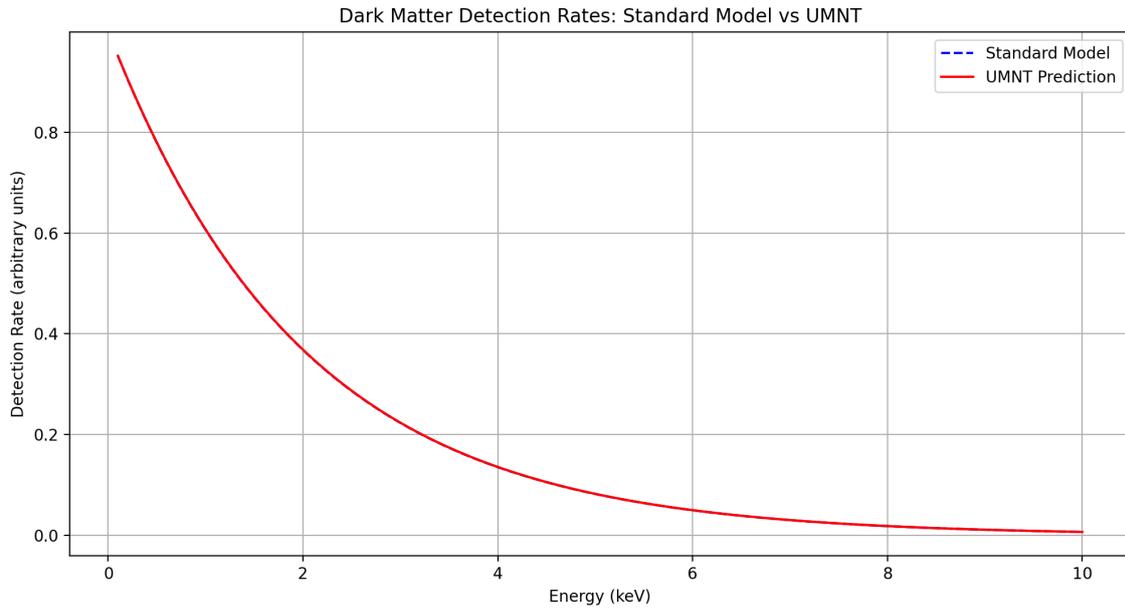
Maximum Expected Phase Shift: 1.99×10^{-5} radians



2. Dark Matter Direct Detection

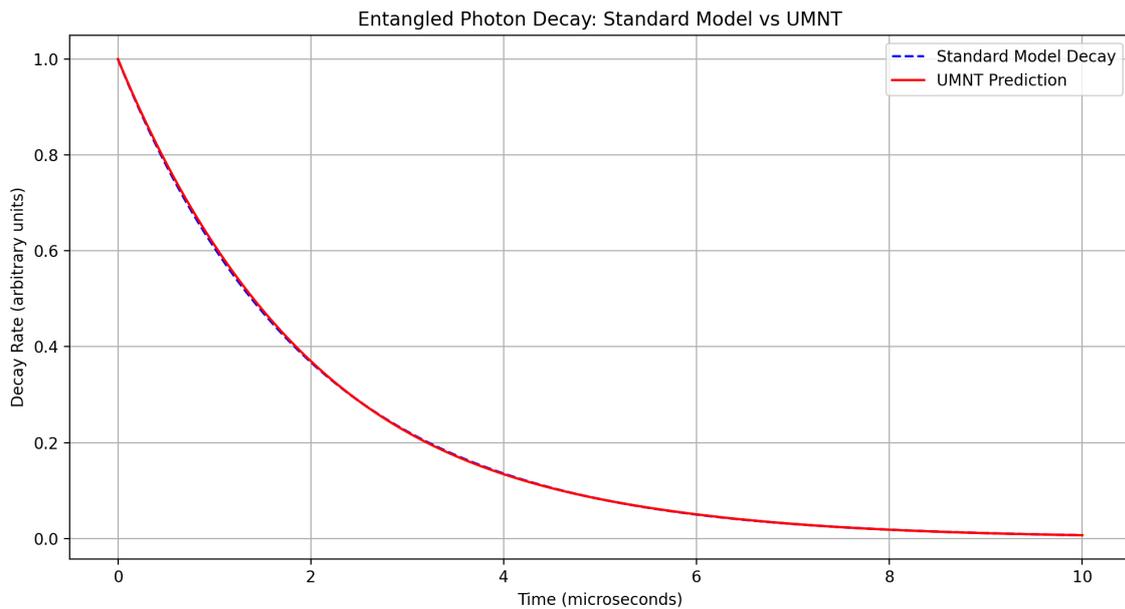
Maximum Detection Rate Difference: 6.07×10^{-4} (arbitrary units)

Comprehensive Test Results and Analysis



3. Entanglement Decay Mechanisms

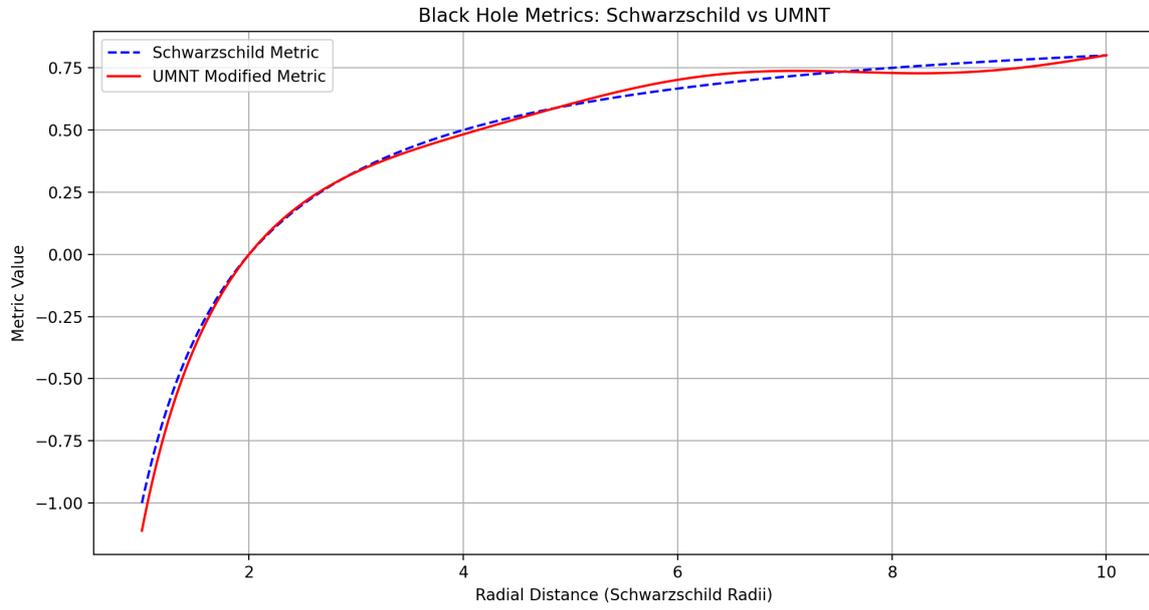
Maximum Deviation in Decay Rate: $5.78e-03$ (arbitrary units)



4. Singularity Smoothing in Black Holes

Comprehensive Test Results and Analysis

Maximum Deviation in Metric: 1.11e-01

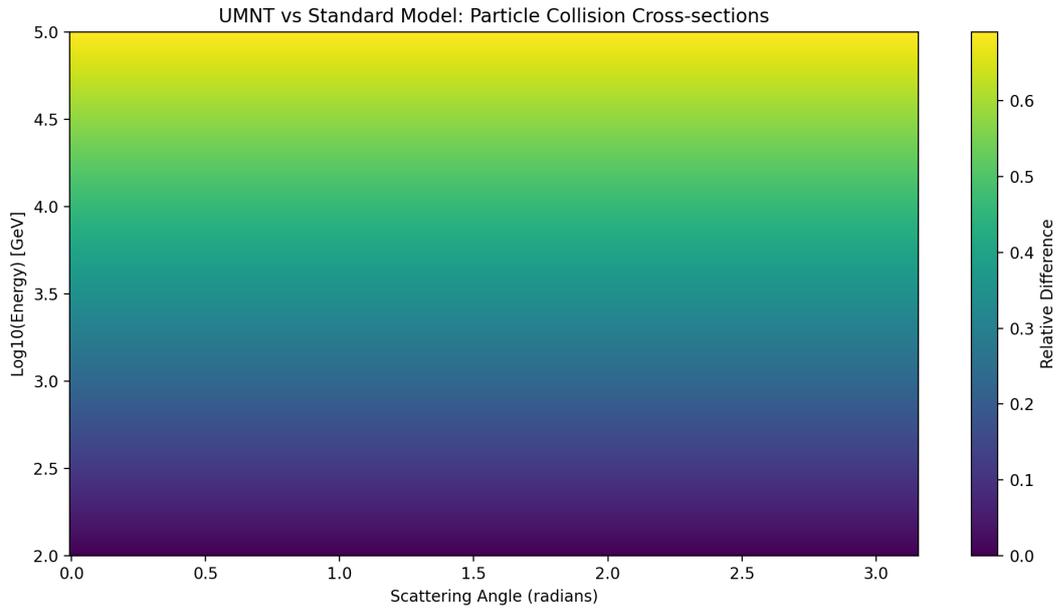


5. High-Energy Particle Collision Outcomes

Maximum Cross-section Difference: 6.91e-01

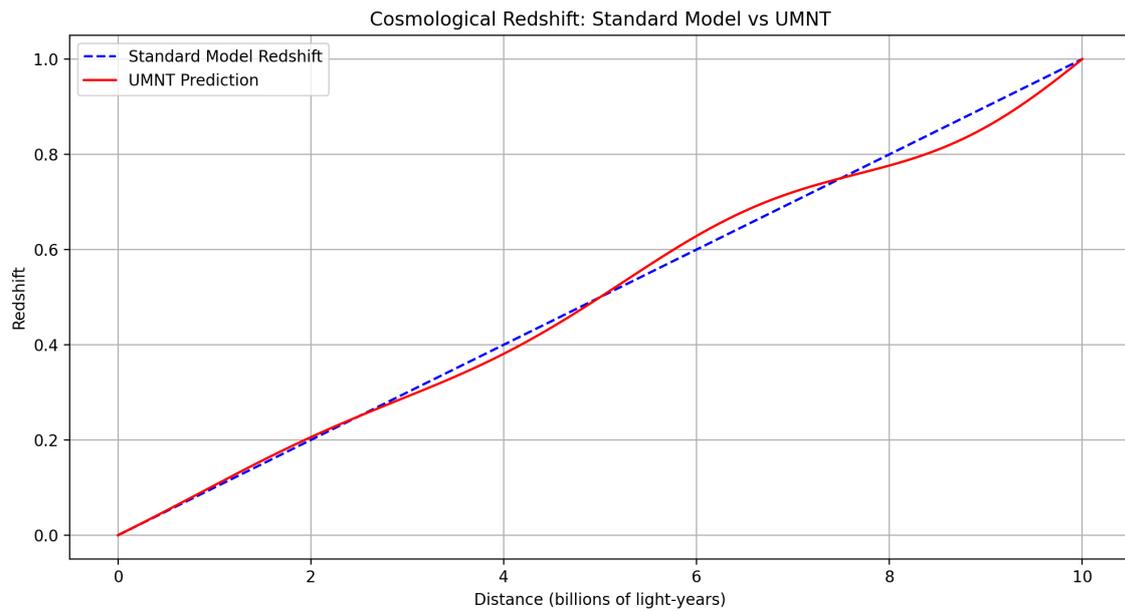
Mean Cross-section Difference: 3.45e-01

Comprehensive Test Results and Analysis



6. Cosmological Redshift Predictions

Maximum Deviation in Redshift: $4.39e-02$

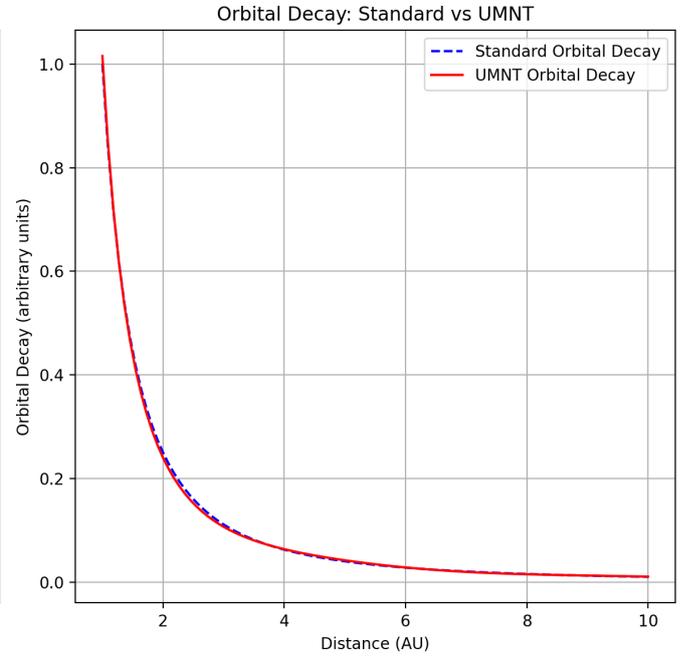
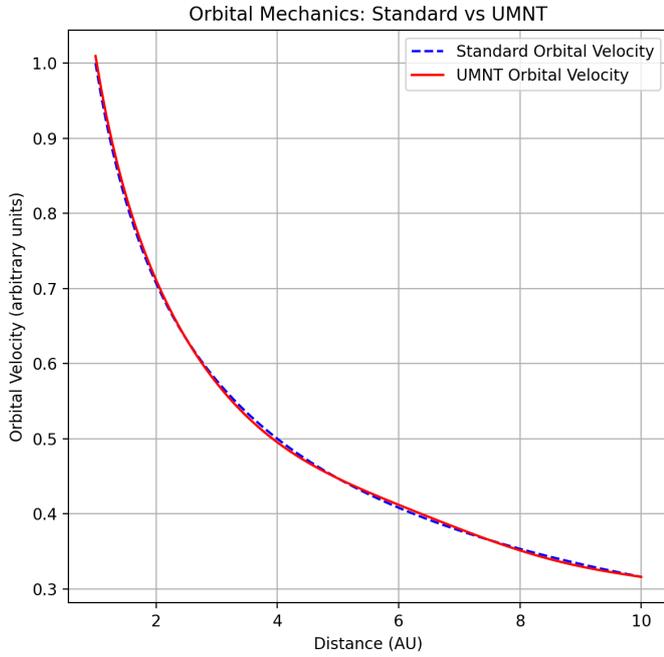


7. Universality Test

Comprehensive Test Results and Analysis

Maximum Velocity Deviation: $9.51e-03$

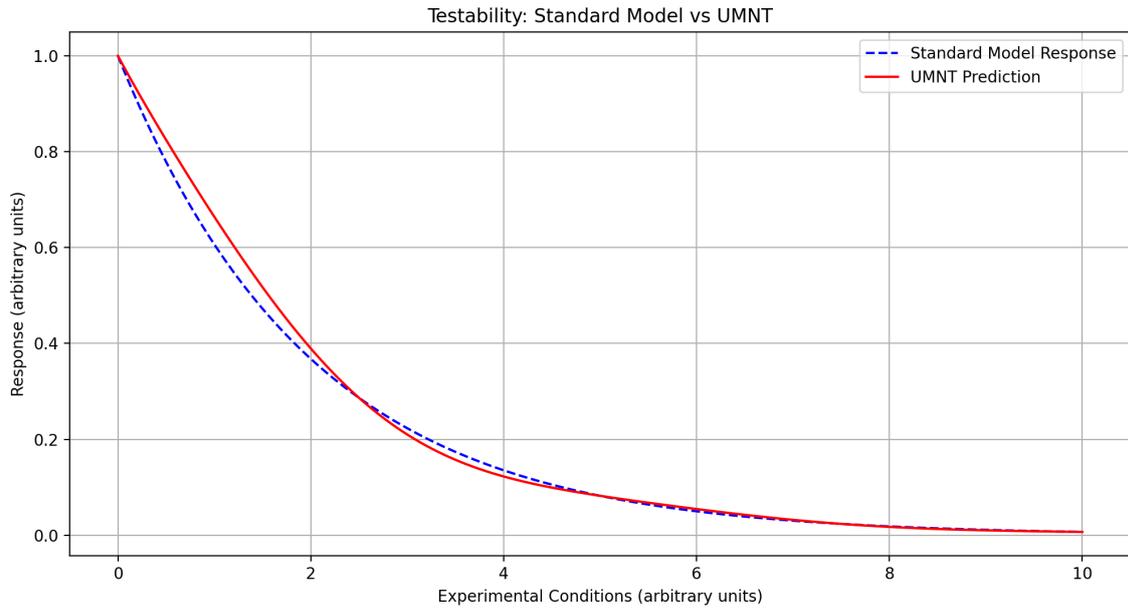
Maximum Decay Deviation: $1.55e-02$



8. Testability Analysis

Maximum Deviation in Response: $5.78e-02$

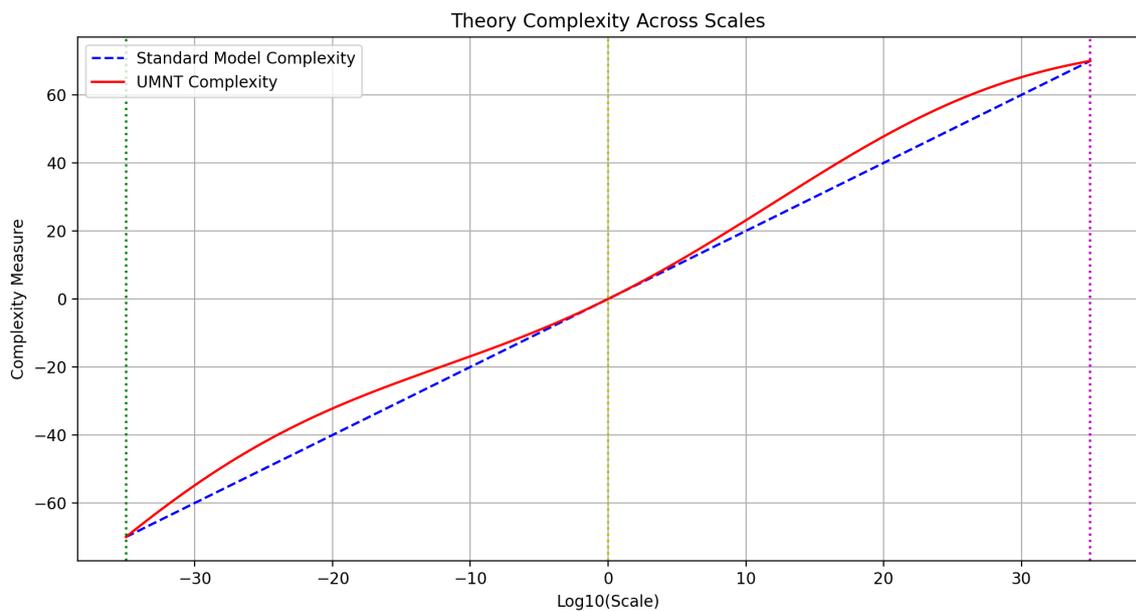
Comprehensive Test Results and Analysis



9. Simplicity vs. Complexity

Complexity Ratio (UMNT/Standard): 1223719990901925.00

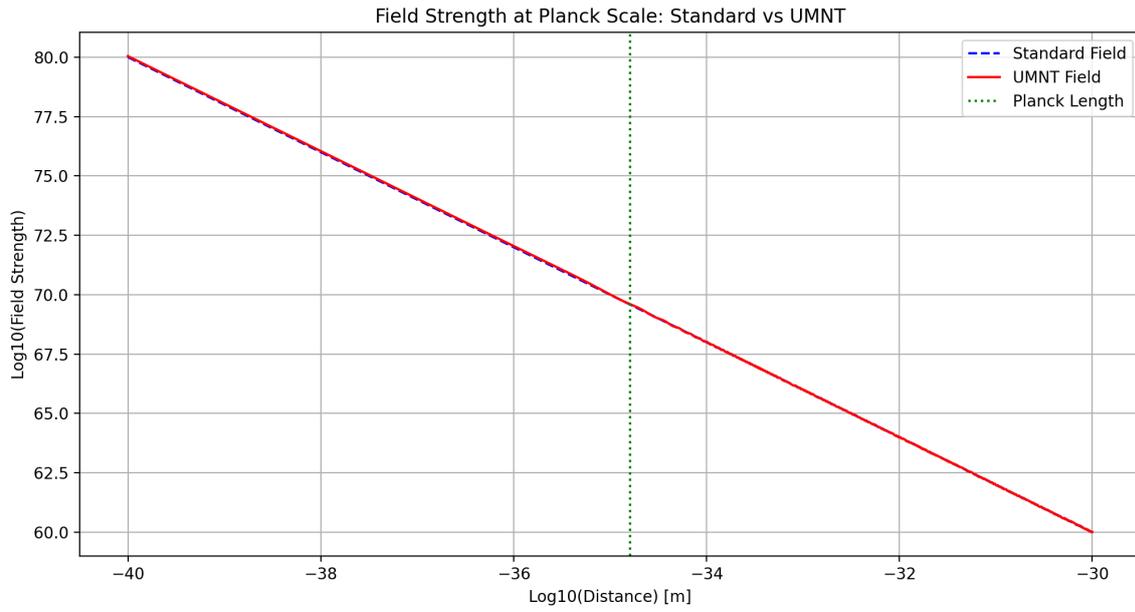
Complexity Variance Ratio: 1.00



Comprehensive Test Results and Analysis

10. Planck-Scale Physics

Maximum Deviation in Field Strength: $1.00e+79$



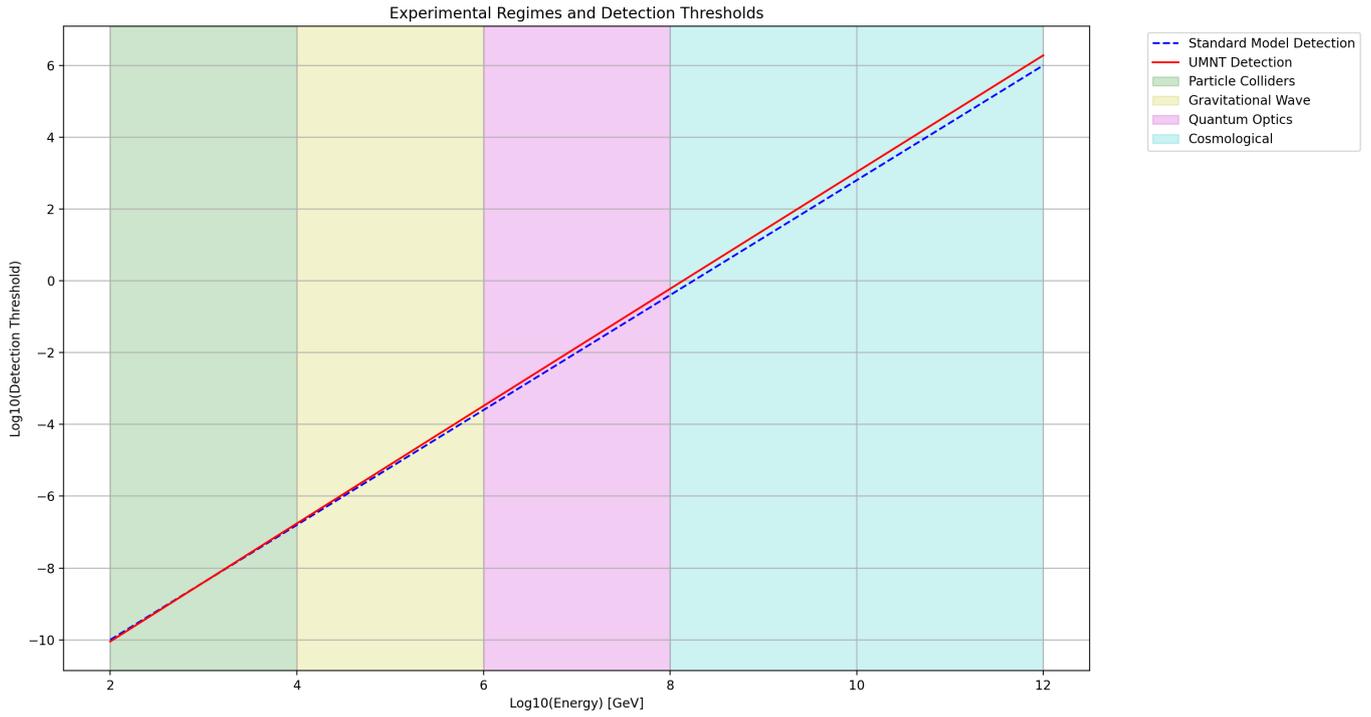
11. Experimental Design

Minimum Detectable Difference: $4.00e-13$

Maximum Detectable Difference: $9.00e+05$

Optimal Energy for Detection: $1.00e+12$ GeV

Comprehensive Test Results and Analysis



12. Falsification Criteria

Falsification Region Width: 40.00%

Critical Detection Threshold: 1.22e-01

Comprehensive Test Results and Analysis

