Error Distribution from 20,000 Simulations:
Theoretical Prediction vs. Measured Values

Legend:
- Simulated Error Distribution
- Normal Fit (μ=0.0003, σ=0.0003)
- Theoretical Upper Bound (0.0033)
- Measured RMSE (0.000010)

N = 20,000 simulations
Mean: 0.00026
Std: 0.00035
95th percentile: 0.00110
99th percentile: 0.00127
Within bound: 100.0%

X-axis: Cumulative Error δd
Y-axis: Probability Density