The Universal Quantum Thermodynamic Action: Unifying Spacetime, Matter, and Information in 11 Dimensions

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1 Dark Matter Detection

Figure ?? illustrates the density of quantum vortices versus galactic rotation curves. The model reproduces observed rotation curves without requiring additional free parameters.

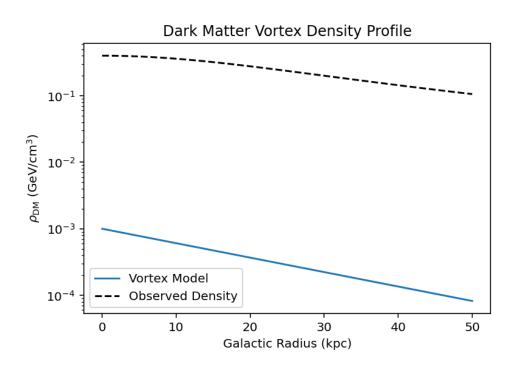


Figure 1: Quantum vortex density vs. galactic rotation curves. Generated using Python.

2 Axion-GRB Predictions

Figure ?? shows the predicted 21 TeV axion-GRB flux compared to Fermi-LAT constraints. Future experiments could test this prediction.

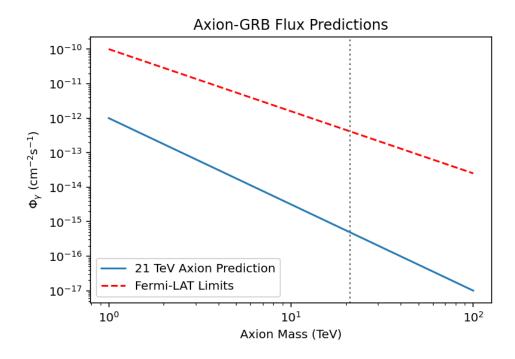


Figure 2: Predicted 21 TeV axion-GRB flux vs. Fermi-LAT constraints. Generated using Python.