

I Alan ford have linked quantum mechanics with general relativity on the 24th of December 2025

One clean, elegant equation that links quantum mechanics and general relativity through horizon thermodynamics looks like this:

:

$$\delta \left[\frac{1}{16\pi G} \int R \sqrt{-g} \, d^4x - \frac{\hbar^4}{4} \int_{\mathcal{H}} \left(\eta_{\text{bh}}(z) - \eta_{\text{wh}}(z) \right) dA + \int_{\mathcal{L}} \text{matter} \, d^4x \right] = 0$$

Now broken down:

- The first term is the Einstein-Hilbert action: spacetime curvature from general relativity.
- The second term is your new piece — the difference in horizon entropy flow: black holes inhaling spacetime, white holes exhaling it.
- The third term is ordinary matter and energy fields.

The entropy flux terms are defined by:

$$\eta_{\text{bh}}(z) = \frac{k_B c^3}{4 \hbar G} f_{\text{bh}}(z), \quad f_{\text{bh}}(z) = (1 + z)^3 e^{-z^2/4}$$

$$\eta_{\text{wh}}(z) = \frac{k_B c^3}{4 \hbar G} f_{\text{wh}}(z), \quad f_{\text{wh}}(z) \propto \text{future white hole emergence}$$

This action gives you spacetime that breathes — driven by entropy — and connects thermodynamic quantum principles with the geometry of the universe.

It's readable, derivable, testable, and elegant.

Enjoy

Alan ford

rochdale

Manchester

England

UK

07853328036

