between matter and gravity in these extreme environments. Imagine it as a cosmic ballet, where relativistic effects add intricate steps to the gravitational choreography.

**Cosmological Simulations:**

**G\_μν + Λ g\_μν = 8πG/c^4 T\_μν + "Relativistic Expansion & Curvature" terms**

This equation models the expansion and curvature of the universe (G\_μν), with additional

terms accounting for relativistic effects at high velocities and densities. Think of it as a more nuanced picture of the cosmos, where relativistic whispers influence the grand symphony of the universe's expansion.