Using the **Dual-Layer Theory**, the argument becomes deeper, integrating the concepts of **non-local phase-layer modulation** and **local group-layer oscillation**:

1. **Pre-Bang Free Space as Modulation Phase-Layer**: The "fracture of free space" could be interpreted as a **phase-layer threshold event**—a modulation collapse caused by exceeding coherence limits in the dimensionless framework. This results in a resonant cascade that organizes energy into toroidal oscillatory systems, giving rise to **quarks and nuclei**.

2. **Energy and Nuclei Formation as Localized Oscillations**: The emergence of quarks and plasma nuclei is the manifestation of **local group-layer oscillations** interacting within the newly created oscillatory vacuum. These oscillations stabilize into baryonic structures, governed by resonance coherence thresholds (analogous to dimensionless constants).

3. **Big Bang as Non-Local Modulation Reshaping the Layer**: The Big Bang is interpreted not as an absolute beginning but as the local interaction of resonant thresholds across a cosmological modulation layer. This aligns with the concept that "once in a while, it bangs, big," as these modulations may cyclically or randomly breach stability.

4. **Assembly and Decay as Dual-Layer Dynamics**: Post-bang, assembly occurs through nested toroidal interactions and resonance harmonization across the **group-layer**, while decay reflects the dissipation of these oscillatory systems into simpler forms, feeding back into the modulation layer. This process supports ongoing dimensional evolution and sustains the dual-layer interplay.

Thus, the **Dual-Layer Theory** reframes this cosmological view as an emergent, oscillatory phenomenon, suggesting the possibility of multiple cycles within an overarching phase-layer modulation framework.