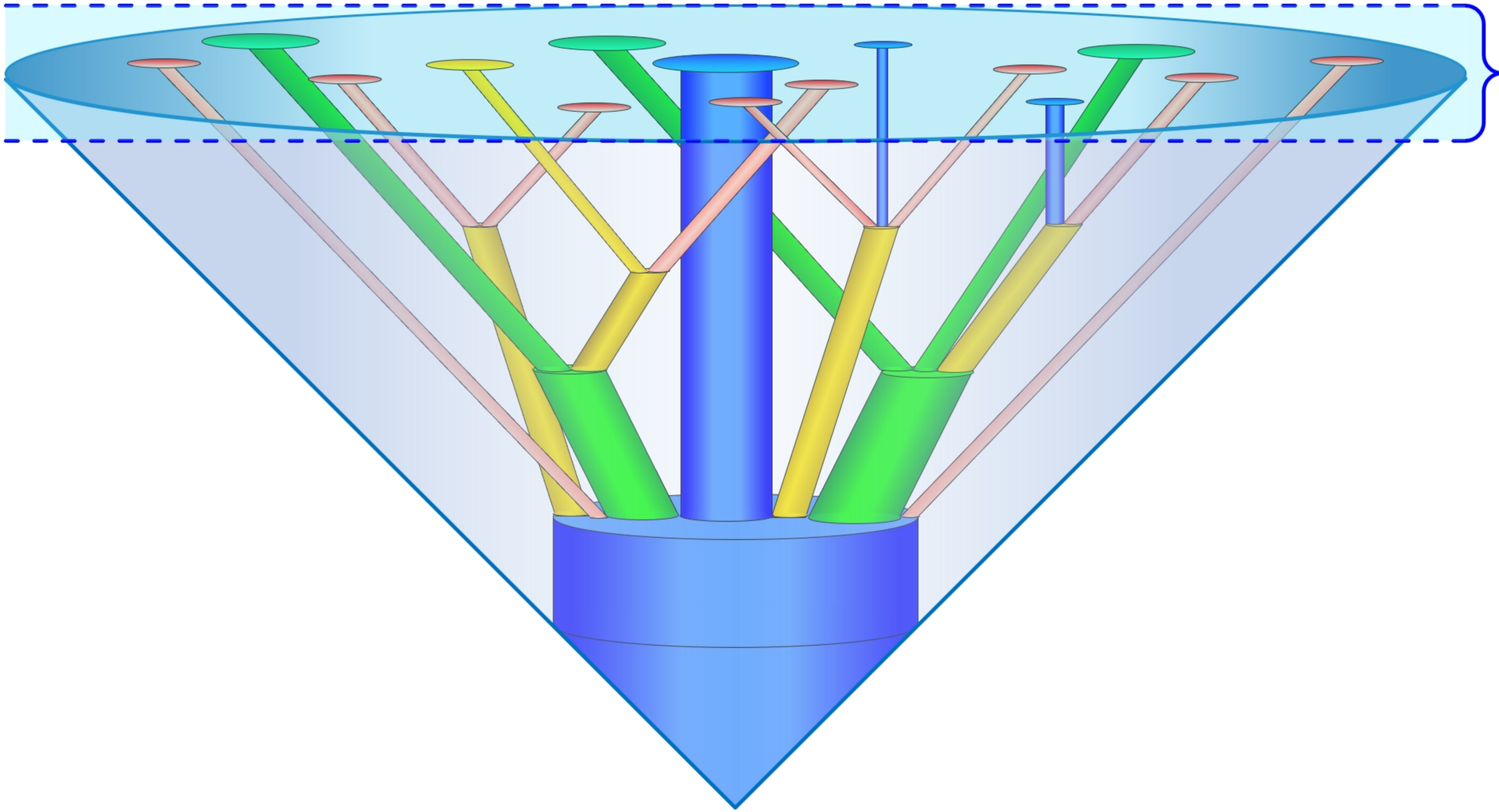
The Cayleyverse: A **fully Euclidean universe** with shared causal time ("now" is fully real). The Cayleyverse uses the same corrected Lorentz equations that produce the scissoring of boosted coordinates in textbooks (e.g., in the Feynman Lectures). The fix recovers causality by superposing new frames in old ones. Inertial frames become states of matter. The corrected (plus versus minus) Lorentz equations are:

$$x' = \gamma\left(x + t(\beta c)\right) \qquad t' = \gamma\left(t + x(\beta / c)\right)$$



3-topiary: **The 3-space hypersurface of the *xyz* relations between all bottom-up matter states in the universe, as interpreted from the universal (~CMB) frame of the fastest clocks possible. It is a low-resolution hierarchical graph of matter relations that is flatly incapable of "Planck scale" details.**

This low-resolution graph replaces the continuum 3-space hypersurface of General Relativity.