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Entropic Cosmology

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The thermodynamics of black holes inspired the concept of black hole entropy, linking gravity and thermodynamics. When applied to cosmology, this leads to the standard Friedmann equations, which face challenges in explaining the universe's evolution. Modified entropies have been proposed to resolve these issues. A recently introduced four-parameter generalized entropy unifies several known forms. Studying this framework offers insights into which entropic models align with observational data. It also allows for consistent cosmological evolution, including inflation, potentially matching Planck results even with scalar field potentials previously ruled out by standard models.

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