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Alleviating the σ8 tension via Soft Cosmology and Modified Gravity

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We examine the possibility of "soft cosmology", namely small deviations from the usual cosmological framework due to the effective appearance of soft-matter properties in the Universe sectors. One effect of such a case would be that dark energy and/or dark matter exhibit a different equation-of-state parameter at large scales (which determine the universe expansion) and at intermediate scales (which determine the sub-horizon clustering and the large-scale structure formation). These properties could help alleviate issues of the standard cosmological paradigm, such as the ÏØ8 tension. In this talk, we shall demonstrate how an f(R) modified theory of gravity could naturally facilitate such properties for the dark Universe sectors.

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