# Tachyon-Dominated Friedmann-Robertson-Walker Cosmology

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**Abstract:**

A Friedmann-Robertson-Walker cosmology dominated by tachyonic dark matter can feature an ``inflected" evolution similar---but not identical---to that of a ΛCDM model. The tachyonic model can be tested against a variety of cosmological observations, including supernova distances, microwave-background fluctioations, the Lyman α forest, and microlensing observations. The model can define a natural framework for quantum field theory, and it calls for the application of quantum field theory to the tachyon.