

Abstract Submitted
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Modified Chaplygin Gas Cosmology from Geometrothermodynamics HACHEMI BENAOU, University of Sharjah — The modified Chaplygin gas (MCG) cosmological model is investigated in the context of geometrothermodynamics (GTD) formalism. We show that the MCG corresponds to a system with internal thermodynamic interaction and describes the current accelerated expansion of the universe. Moreover, we also note that the MCG as a unified model for dark energy and dark matter is perfectly consistent with the current SNe observations and CMB anisotropy measurements.

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