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Cosmological barotropic fluids in geometrothermodynamics

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Geometrothermodynamics (GTD) can be used in relativistic cosmology to generate models of barotropic fluids. As an alternative approach, we use the GTD formalism to find the most general thermodynamic fundamental equations that describe the barotropic fluids of the Lambda-CDM model. This allows us to investigate the thermodynamic properties of these barotropic fluids from the point of view of GTD. As a result, we can describe the evolution of the cosmological fluids from a thermodynamic perspective.

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