

Abstract Submitted
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Acceleration and horizon problem within interactive Bose gas model of dark energy GERMAN IZQUIERDO, BESPROSVANY JAIME, Inst. Fisica, UNAM — We study the dynamics of a FRW universe containing a self-interacting Bose-Einstein gas. The interaction between the particles of the gas gives accelerated solutions. We demonstrate how this model can be applied to describe the early stage of accelerated expansion, solving the horizon problem and respecting the nucleosynthesis scenario. We also demonstrate under which conditions the model can describe the present accelerated expansion.

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