

A holographic energy model

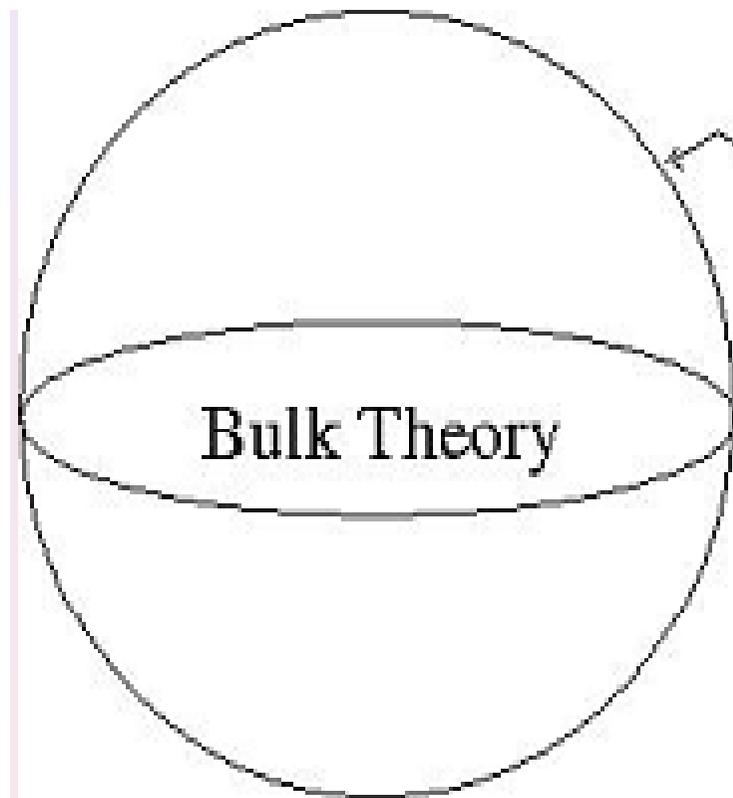
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Boundary Theory

Holographic Principle:

Gravity in the bulk is equivalent
to a gauge theory on the boundary

Holographic dark-energy

If ρ_D is the quantum zero-point energy density caused by a ultraviolet cutoff, the total energy in a region of size L should not exceed the mass of a black hole of the same size, and then one has

$$\rho_{DE} L^3 \leq LM_p^2$$

$$\rho_{DE} = 3C^2 M_p^2 L^{-2}$$

Generalizing the research of establishing the holographic dark energy model, the total energy density ρ_{KMR} of spatial curvature, matter and radiation can be *given out*.

- We give out a holographic energy model in which the energy coming from spatial curvature, matter and radiation can be obtained by using the particle horizon for the infrared cutoff. We show the consistency between the holographic dark-energy model and the holographic energy model proposed in this paper. We further give out a holographic description of the universe.

- More details see the original article or my poster (No.17)

**Thank You Very
Much !**