

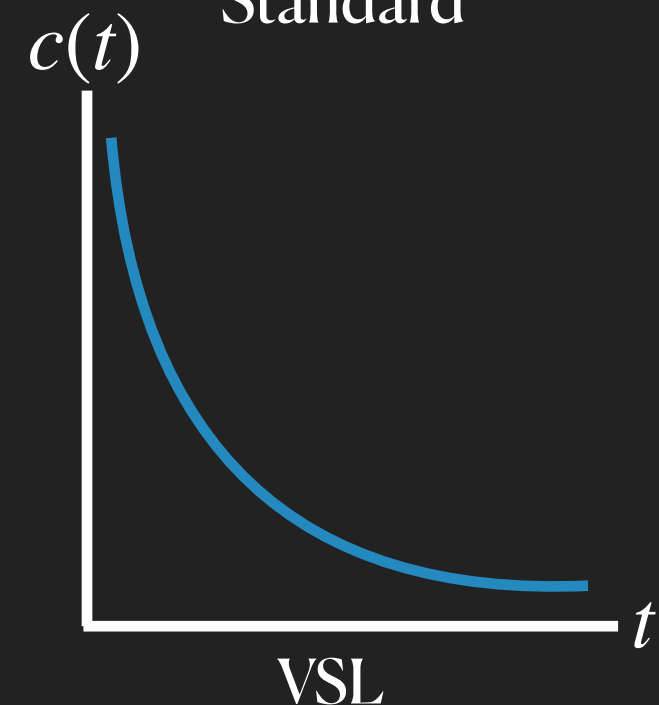
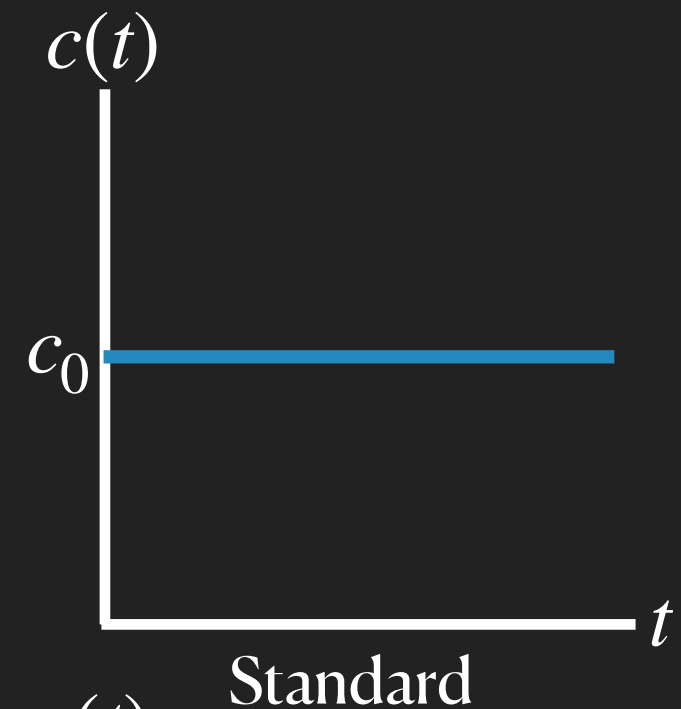
CMB TEMPERATURE WITH VARIABLE SPEED OF LIGHT

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VARIABLE SPEED OF LIGHT (VSL)

- ▶ The alternative model that mentions the speed of light is variable even in a vacuum.
- ▶ The universe are static ($a = 1$).
- ▶ The speed of light are decreasing over time.



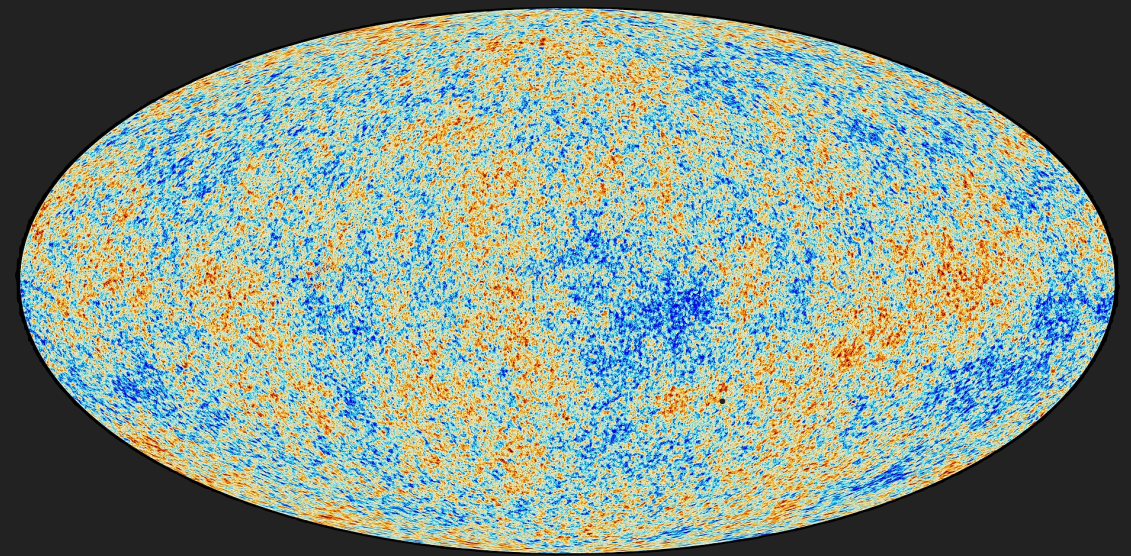
COSMIC MICROWAVE BACKGROUND (CMB)

- ▶ Standard cosmological model:

$$T(t) \propto \frac{1}{a(t)}.$$

- ▶ VSL model:

$$T(t) \propto \frac{c(t)}{a}.$$



CMB temperature

- ▶ Static universe: $a = 1$.
- ▶ The result corresponds to the standard model.

CONSEQUENCES OF VSL

- ▶ Discuss in detail about cosmological parameters,
 - ▶ Cosmological redshift.
 - ▶ Luminosity distance.

Could you please suggest a topic I should study further? 🙏