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Redshift Drift in LTB universes

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△Motivation

◎Anti-Copernican Universe

- We abandon the Copernican principle.
  We are in the center of the inhomogeneous universe.

- Which observables are useful for the test?

△Redshift Drift

◎Redshift Drift: Time Derivative of Redshift

◎Theorem

The redshift drift of an off-center source is negative in LTB void models

Whereas it is positive in z<2 for the LCDM univrese

△Conclusion

◎By the observation of the redshift drift, we get a strong constraint on LTB universe models: if the redshift drift will be turn out to be positive in some redshift domain, LTB void models can be rejected.