

Redshift/Recession Speed of Galaxies and the Speed of Light

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Davis and Lineweaver [1] reported that the recession speeds of the galaxies exceed c in all viable cosmological models if their redshifts $z > 1.5$. The galaxy MoM-z14 (or Mom z14) was spotted by NASA's James Webb Space Telescope's NIRCcam (Near-Infrared Camera) and confirmed spectroscopically with its NIRSpec (Near-Infrared Spectrograph) instrument [2]. This galaxy has a redshift of $z = 14.44$ and it is receding from Earth at a speed of 99.2% the speed of light, approximately $(2,973 \times 10^8 \text{ m sec}^{-1})$. Clearly, something is wrong.

References

- [1] T. M. Davis and C. H. Lineweaver, *Expanding Confusion: Common Misconceptions of Cosmological Horizons and the Superluminal Expansion of the Universe*. Publ. Astron. Soc. Australia, 21, 97–109 (2004).
- [2] R. P. Naidu et al., *A Cosmic Miracle: A Remarkably Luminous Galaxy at $z = 14.44$ confirmed with JWST*. arXiv:2505.11263 (astro-ph).