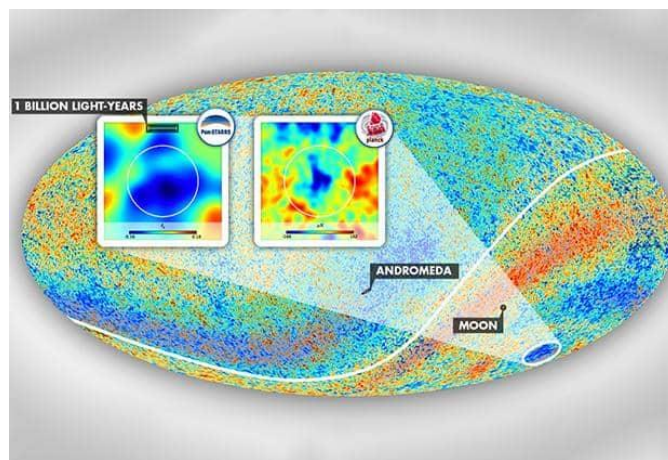


A New Explanation of the Unresolved Questions in Physics and Cosmology, 2026 – Part A: What Is the CMB Cold Spot?

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Considering the two phenomena of redshift and blueshift that exist in the Universe, if an object or galaxy approaches our galaxy, its relative motion with respect to our galaxy causes the observed frequency of the received light waves to increase, causing the waves to shift toward the blue. Conversely, if two galaxies move away from one another, the relative motion causes the observed frequency of the received light to decrease, and the emitted waves shift toward the red.



The phenomena of high-shift and low-shift may also be considered. In view of these effects and possible interference, it cannot easily be concluded that the observed hot and cold regions necessarily represent actual temperature differences.

The proposal of the Saleh Theory is therefore that electromagnetic waves should be examined primarily on the basis of their wavelengths.

Conclusion: If redshift and blueshift have an influence on the observed imaging, there may be some uncertainty in interpreting the resulting patterns directly as actual temperature differences. In general, however, the Universe is expected to be approximately homogeneous and isotropic on sufficiently large scales. If temperature differences exist, they may also occur in regions surrounding stars or in intergalactic regions.

Overall, according to the principle of large-scale homogeneity and the conditions of the early Universe, the temperature of the Universe should have been approximately uniform on large scales. Therefore, if temperature differences are observed in an image, secondary phenomena such as redshift and blueshift may also be considered as possible factors that influence the observed appearance and consequently our interpretation of the Universe.



References:

- [1] Cembranos, J. A. R., et al. "Is the CMB cold spot a gate to extra dimensions?." *Journal of Cosmology and Astroparticle Physics* 2008.10 (2008): 039.
- [2] Saleh, Gh. "A New Explanation for Why Vacant Cosmic Regions are Not Empty and Why Occupied Regions May Not Be as They Appear: Utilising Inflation, Redshift, and Blueshift Phenomena in the Universe." Saleh Theory, 23 Feb. 2026, <https://saleh-theory.com/article/a-new-explanation-for-why-vacant-cosmic-regions-are-not-empty-and-why-occupied-regions-may-not-be-as-they-appear-utilising-inflation-redshift-and-blueshift-phenomena-in-the-universe>
- [3] Saleh, Gh. "A new explanation of redshift and blueshift phenomena (using movement light source)." *APS Meeting Abstracts*. 2022.

