

Title: Dark matter does not exist if redshifts of galaxy velocities are corrected for cosmic dust

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Abstract

QED redshift in cosmic dust NPs above that given by Hubble redshift is shown to overstate galaxy velocities giving the impression dark matter is necessary to hold the galaxies together. QED stands for simple light-matter interaction differing from the complex interaction proposed by Feynman and others, while NPs stand for nanoparticles. But if Hubble redshift is corrected for redshift in cosmic dust, there is no need for dark matter as the galaxies are held together by Newtonian mechanics. The ubiquity of cosmic dust suggests all astronomical velocities based on Hubble redshift measurements interpreted by the Doppler effect are most likely overstated, e.g., the long-standing galaxy rotation problem may be resolved without the need for dark matter if the redshift measurements giving the higher than expected galaxy velocities are corrected for the QED redshift in cosmic dust. Similarly, an accelerating Universe expansion does not exist if data showing supernovae brighter than expected based on the redshift/distance relation are corrected for redshift in cosmic dust. In fact, dark matter does not exist. QED redshift in cosmic dust is shown to have influenced other historical astronomical observations including the Sunyev-Zel'dovich Effect, SN Light Curve Decay, Tolman Test, Exoplanet discoveries, and Olbers Paradox.

Biography

Thomas Prevenslik is a retired American living in Hong Kong and Berlin. Because classical physics does not work at the nanoscale, he developed the simple theory of QED based on the Planck law of quantum mechanics. Differing from the complex QED advanced by Feynman and others, simple QED assumes absorbed heat is confined to NP surfaces because of their high surface-to-volume ratios. Thus, NP atoms are placed under high EM confinement over nanoscale wavelengths that by the Planck law preclude the atoms from having the heat capacity to conserve heat by an increase in temperature. Simple QED then converts the surface heat into nonthermal standing EUV radiation inside the NPs with lower quantum states such as plasmon resonances excited by fluorescence. In the instant topic of dark matter, the galaxy light absorbed by cosmic dust is redshift to fit inside the NP prior to continuing to Earth that interpreted by the Doppler overstates the velocity of the receding galaxy erroneously suggesting dark matter is necessary to hold galaxies together or the Universe is expanding.