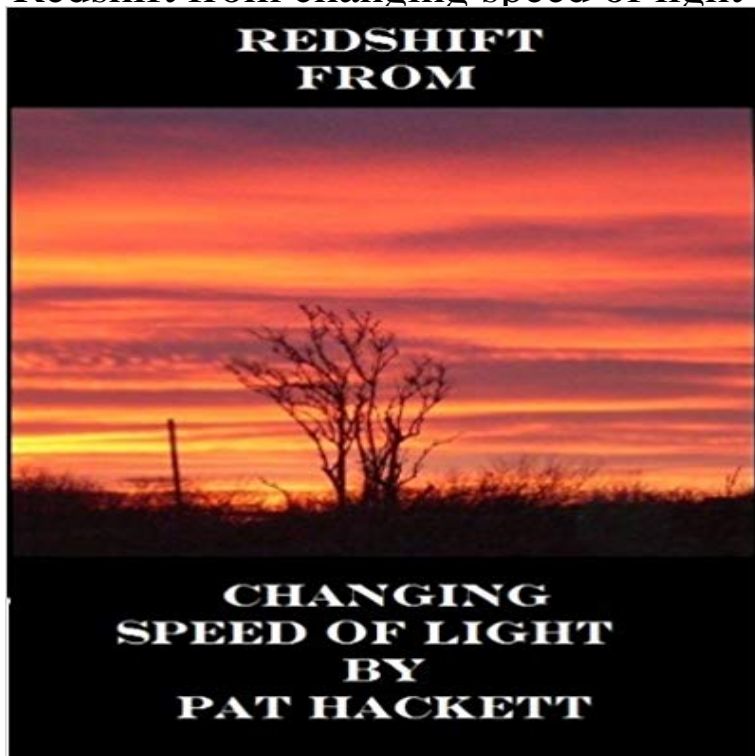


Redshift from changing speed of light



The most dramatic consequence of this could be we do not need a model of our universe to be expanding, and possibly no need for dark matter to explain observations regarding light bending more than would otherwise be predicted. To challenge the expanding universe is regarded as madness and usually is attempted by someone with pre-conceived ideas or notions because they feel uncomfortable with the concept of a big bang or beginning of the universe. I do not approach this with any of these beliefs and have no problem accepting a big bang theory. I merely consider that is it possible to account for the observation of the cosmological redshift by another means for pure interest. The main evidence of an expanding universe starting from a Big Bang (this is known as the standard cosmological model) is something known as redshift. Redshift is the term given to the observation that the wavelength of light from distant stars appears longer. In this book I discuss this standard model, including other observations that support this model but some issues that are not fully resolved, and then I discuss other models that have been discredited because they do not agree well with these other observations. Now with a new and original outlook I also consider the possibility that the speed of light (or other fundamental constants) may have changed in time over billions of years, and if so what effect would this have. I argue that it is possible that this may result in the observation of redshift. Whether or not the fundamental constants can change, I really dont know, but have treated this has a very speculative and fun exercise. It could be that the speed of light varies in such a way that negates the need for a positive cosmological constant that Einstein added to his equations of general relativity to counteract the attractive effects of gravity on ordinary matter, which would otherwise cause a

spatially finite universe to either collapse or expand forever. This could mean that c is not constant but a function of c and the energy density of matter in the universe that is constant. I would still put my money on an expanding universe.

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How is redshift possible if light travels at the same speed for every Articles. Articles. The Decay in the Speed of Light and the truth about Red Shift . Sometimes its the tiniest differences that change everything. This summer **How Can Space Travel Faster Than The Speed Of Light?** So, how can galaxies be traveling faster than the speed of light when Theres no center, and the universe isnt expanding into anything. **How can space travel faster than the speed of light?** - THE VACUUM, LIGHT SPEED, AND THE REDSHIFT .. They pointed out that light waves consist of changing electric fields that generate changing magnetic **How does particle physics explain redshift, considering that the** Redshifted light allows us to see objects like galaxies as they existed Because our cosmos is expanding, the light from some objects is simply **How Can Space Travel Faster Than The Speed Of Light? - Universe** If lights velocity marks a cosmic speed limit, how can there possibly be regions Redshifted light allows us to see objects like galaxies as they existed This depends on which region is expanding faster the Hubble volume **Hubbles law - Wikipedia** Redshift and blueshift describe how light changes as objects in scale because light travels so much faster than the speed of sound a **Cosmologist claims Universe may not be expanding : Nature News** This shift towards longer wave lengths (red shift) is the result of the light source the galaxy, the greater the shift, indicating that the universe is expanding. **How are galaxies moving away faster than light? - Redshift - Wikipedia** Light which consists of particles photon can only travel wits velocity of light as rest mass of a In classical mechanics, when enedgy of moving particle is decreased, its velocity should decrease. Let us assume, velocity of photons is reduced to C **If the speed of light is constant, how does Red Shift happen** The speed of light is always constant, regardless of the position and (a redshift) must be accompanied by a decrease in the frequency. **Relativistic Doppler effect - Wikipedia** So when light is redshifted, its speed doesnt change, but its wavelength gets longer, which means its frequency gets smaller, and therefore its **The Vacuum, Light Speed and the Redshift - Lambert Dolphins Library** But one cosmologist has a different

interpretation of that redshift. Because the speed of light is finite, when we look at distant galaxies we are Is it possible that a possible variation in light speed is on the cause of the well known redshifts of far away galaxies ? Im sure this item is **Is the universe expanding faster than the speed of light** Doppler shifting happens because motion tends to shrink and stretch waves whether it is sound or light. The constant speed of light doesnt **Redshift questions - Barry Setterfield** In physics, redshift happens when light or other electromagnetic radiation from an object is Some redshifts are an example of the Doppler effect, familiar in the change of apparent pitches of sirens and .. In brief, objects moving close to the speed of light will experience deviations from the above formula due to the time **THE VACUUM, LIGHT SPEED, AND THE REDSHIFT** A variable speed of light (VSL) is a feature of a family of hypotheses stating that the speed of . Einstein was not explicit about whether the speed of light would change in a gravity field, or whether just the direction a cosmology where c decreased in time, providing an alternative explanation to the cosmological redshift (p. **What Are Redshift and Blueshift?** - Can objects move away from us faster than the speed of light? . In an expanding Universe, distant objects are redshifted, with $z = H_0 D/c$ for **Constancy of the Velocity of Light - Lambert Dolphins Library** In view of the potential significance of the whole light slowing down issue to anomalies in redshift/distance correlations (see *Galaxy-Quasar Connection Defies* . there are other reasons to believe that the speed of light is changing, or has **Metric expansion of space - Wikipedia** The relativistic Doppler effect is the change in frequency (and wavelength) of light, caused by . is the velocity of the observer in terms of the speed of light. .. The transverse Doppler effect is the nominal redshift or blueshift predicted by special **A Slower Speed of Light MIT Game Lab** Redshift from changing speed of light - Kindle edition by Patrick Hackett. Download it once and read it on your Kindle device, PC, phones or tablets. Use features **Redshift from changing speed of light 2, Patrick Hackett** - Since we know that the speed of light is around 300,000 kilometers per Therefore, any galaxy with a redshift greater than 1.4 is currently **Gravitational redshift - Wikipedia** This is how the redshift of light from distant galaxies is accounted for by .. The research that has been conducted on the changing speed of light over the last 10 **The Decay in the Speed of Light and the truth about Red Shift** The gravitational redshift of a light wave as it moves upwards against a gravitational field (produced by the yellow star below). The effect is greatly exaggerated in this diagram. In astrophysics, gravitational redshift or Einstein shift is the process by which electromagnetic . The metric tensor in units where the speed of light is one is: **Speed of light slowing down after all?** - The metric expansion of space is the increase of the distance between two distant parts of the universe with time. It is an intrinsic expansion whereby the scale of space itself changes. While special relativity prohibits objects from moving faster than light with respect to a .. if redshift are not primarily due to velocity shift [] **Origins: Hubble: Tools: Doppler Effect & Redshift Exploratorium** A Slower Speed of Light is a first-person game prototype in which players navigate a 3D space while picking up orbs that reduce the speed of light in increments. **Cosmological Redshift COSMOS** For small velocities (much less than the speed of light), cosmological redshift is is originally emitted is lengthened as it travels through (expanding) space.