

1. **There exists no observational evidence of anything unobservable;**
2. **Superluminality is a fabrication** that can in no way be derived from any observed phenomenon, hence it has nothing to do with reality whatsoever;
3. **The universe has a 3-spherical geometry**, as follows from the 1 400 000 objects in the Subaru Deep Field, the 526 000 quasars in the DR14Q database of the Sloan Digital Sky Survey (23% of the full 4π sky), the 10 000 objects in the Hubble Ultra Deep Field, as well as from the *magnitude-redshift* diagram of circa 2000 type 1a supernovae;
 - a. half its *circumference* equals the *Hubble distance*;
 - b. it grows at a hyperradial *velocity* of c/π , so this *hyperradius* cannot be the dimension we call *time*, because *ict* progresses at the *speed of light*, just like the *Hubble distance*;
 - c. the CMB source is a rather small entity around the antipodal point which is seen *in* every direction from the observer's perspective, as well as *from* every direction in its own;
 - d. the centre of *mass* of the entire universe cannot reside within the universe itself, since it resides at the very centre of the 3-sphere;
4. **the expansion of the universe is as linear as can be**, as follows from the *quasar density* over *time*; what has been assumed *accelerated expansion* of the universe actually is its 3-spherical geometry;
5. **dark energy is a superfluous excogitation**, because *accelerated expansion* is a misconception; and non-existing phenomena need no explanation;
6. **the expansion is just as intragalactic as it is intergalactic**, as follows from the linear growth of the absolute *diameters* of objects versus their *distance* \triangleq *lookback time*, as derived using 3-spherical geometry;
7. **the correct form of the Hubble-Lemaître law** is as below, presuming each object has always had the same subluminal *Hubble velocity* as is currently observed (according to Newton's law of inertia); proper maths then yields (dimensionless, scaled to c , D_H , and t_H):
 - a. **current proper distance** $\rho_P = \beta_H < 1$
 - b. **light travel distance \triangleq lookback time** $\rho_L = \tau_L = \frac{\beta_H}{1+\beta_H} < \frac{1}{2}$
 - c. the *light travel distance* equals the *emission distance*, which is the *proper distance* to the light source as it was at the moment of emission of the now observed photon;
 - d. no two objects in the universe have a mutual *current proper distance* that exceeds the *Hubble distance*, not even by a *Planck length*; the presumed current *diameter* of the universe of 93 Gly contradicts every observation based law of nature or other conclusion that can be derived from facts without excogitating;
8. **there exists no observation horizon**, which immediately follows from the impossibility of *superluminality* together with this correct form of the Hubble-Lemaître law;
9. **the idea of objects whose light did not yet have time to reach us is an illusive fabrication** since it would require *superluminality*; this is another way of stating the non-existence of the horizon problem;
10. **the inflationary universe never occurred**; inflation of the universe is a fabrication; both premises of this theory, i.e. the *horizon problem* and the *flatness of the universe*, are untrue;

11. **cosmological or expansional *redshift* cannot and does not exist**, since conservation of energy forbids a photon's frequency to change during its travel;
12. *redshift* due to the *relativistic Doppler effect* immediately takes place at the moment a photon is emitted;
13. **the Cosmic Microwave Background (CMB) must originate from a very early 3 GK plasma yielding a *redshift* of ca. 1.1×10^9** ; the presumption of the post-recombination hydrogen cloud at 3000 K leading to $z \approx 1100$ is in contradiction with the total lack of hydrogen lines in its spectrum which exactly follows Planck's radiation law;
14. **Dark matter is an excogitation** based on so called *Keplerian decline*; this can and does however not exist because it is completely incorrect to apply the shell theorem to a disk; proper maths using only Newtonian *gravitation* yields galaxy rotation curves that match observations;
15. **a black hole's *Schwarzschild radius* exists only for distant observers**; in the local frame of a body falling into the black hole the collision is at the *speed of light*, so *Lorentz contraction* reduces the *Schwarzschild radius* to nought; in the central *mass's* own local frame this must then also be nought, which is obviously caused by *gravitational length contraction*; this implies that for both colliding bodies there exists no singularity at all and the Schwarzschild sphere does not have any interior;
16. **ALL blackholes must be primordial** since falling into a black hole takes infinitely long as observed from a distance; the same infinity applies to the formation of a black hole;
17. **the big bang came from negative infinity and thus took infinitely long; each point in space was the very last that was lauched out of it** as observed in its own local frame; this is cause by *time dilation* of a remote object's *Hubble time*, which makes it way longer than the *Hubble time* in the local stationary observer's own *time* frame; but each local *time* frame started at zero; presuming each point in space abruptly and instantly achieved its *Hubble velocity*, it had an infinite *acceleration* during zero *time* and infinite *gravitational time dilation* then caused its clock to run so slowly that the entire *time span* from negative infinity to zero got contracted to nought;
18. **for very distant objects the *age* of the universe in their own local frame nearly equalled the *Hubble time* at the moment of emission of the now observed light; the minumum is $\approx 70\%$ of the *Hubble time* at 61.80% (golden ratio!) of the *Hubble distance*, so we do NOT observe very young objects in deep space**; this follows from the proper application of *time dilation* to the *light travel time* as observed by us, yielding the remote object's *Hubble time* at the moment of emission in the object's own *time* frame;
19. all of the above was deduced from observed phenomena and/or the usage of proper maths, without excogitating anything;
20. **standard cosmology is astray.**

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