

Possible Alternatives to the Standard Cosmological Model

Some cosmologists have developed alternative models which produce a different understanding of the connections with ‘process time,’ or time that an observer will see things happening from his perspective. Humphreys and other cosmologists have proposed a White Hole Cosmology in which, contrary to the Big Bang model, there is assumed to be a natural centre to the Universe. By using exactly the same general relativity differential equations that Einstein used, but with different initial conditions, Humphreys, Hartnett, and others have shown that one then gets a gradient of time dilation effects across the early expansion. This session will explore the implications of this.

Andy McIntosh visiting research professor at the University of Leeds, in Thermodynamics and Combustion Theory, and adjunct faculty at University of Mississippi, has lectured and researched in these fields for over 30 years. He has a PhD in Combustion Theory from the Aerodynamics Department of what was then Cranfield Institute of Technology (now Cranfield University), a DSc in Applied Mathematics from the University of Wales and worked for a number of years at the Royal Aircraft Establishment. He is a Fellow of the Institute of Mathematics and its Applications, the Institute of Energy, the Institute of Physics, and the Royal Aeronautical Society. A chartered mathematician and engineer, and author of over 180 papers and articles, his research has been in combustion in fluids and solids. His work has also included investigations into the fundamental link between thermodynamics and information, and in the last few years he has been involved in research in the area of biomimetics where the minute combustion chamber of the bombardier beetle has inspired a patented novel spray technology. He now lectures widely on origins, and has authored the book *Genesis for Today* (Day One, 5th Edition, 2014), and contributed to the books *In Six Days* (Master Books, 2009), *Should Christians Embrace Evolution?* (IVP, 2009), and *Origins – Examining the evidence* (Truth in Science, 2011). He is co director of the UK education think tank Truth in Science and married with 3 children and 6 grandchildren.

I. Classical “Big Bang” Cosmology

- A. Assumptions in the Classical Model
- B. Einsteinian Mathematical Models
- C. Gravity and Clocks
- D. Experimental Observations
- E. Dark Matter / Dark Energy / Inflation

II. Biblical Issues

- A. Stretched Space
Gen. 1:8 And God called the firmament Heaven.
Is 40:22 that stretcheth out the heavens as a curtain, and spreadeth them out as a tent to dwell in

See also Job 9:8, Ps 104:2, Is 42:5, Is. 44:24, Is 45:12, Is 48:13, Is 51:13, Jer 10:12, Jer 51:15, Zech 12:1

B. Numbered stars

Ps 147:4, Is 40:26

C. Fabric of heavens

Is 34:4, Ps. 102:26, Heb. 1:12

III. Alternative Cosmologies

A. Different assumptions – Large but finite Universe. Boundary and Initial Conditions.

B. Einsteinian Mathematical Model with alternative assumptions – Klein Metric

C. Implications for Event Horizons concerning Gravity and Clocks

D. Other Metrics – Carmeli Metric

E. Further ongoing research

Suggested Readings:

Arp, H., Quasars, Redshifts and Controversies, Cambridge University Press, 1987

Arp, H., Seeing Red, Apeiron, Montreal, 1998

Clark, S., Redshift, University of Hertfordshire, 1997

Einstein A, Sidelights on Relativity, 1922, see
http://www.ibiblio.org/ebooks/Einstein/Sidelights/Einstein_Sidelights.pdf

Hartnett, J., Starlight Time and the New Physics, 2nd Edition, Creation Book Publishers, Atlanta, USA, 2010

Harrison, E. R., Cosmology: The Science of the Universe, Cambridge University Press, Cambridge, 1981

Hawking, S. and Ellis, G.F.R., The Large Scale Structure of Space and Time, Cambridge University Press 1973

Humphreys, R., Starlight and Time, Master, 1994

Humphreys, R., New Vistas of Space-Time Rebut the Critics, Creation Tech. J., vol. 12, no. 2, 1998

Pailer, N. und Krabbe, A. Der vermessene Kosmos [Eng. The measured Cosmos], SCM Hänssler, Wort und Wissen, 2016

Williams, A. and Hartnett, J., Dismantling the big Bang, Master, 2005