THE COSMIC CONSCIOUSNESS CONNECTION Bernard Carr







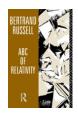


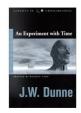




Frenchman's Cove 19-25 January 2017

PERSONAL PERSPECTIVE







C.U. Astronomical Society C.U. Psychical Research Society

C.U. Buddhist Society

Wednesday Matter

MACROPHYSICS - MICROPHYSICS - CONNECTIONS

Thursday Mind

ANTHROPIC PRINCIPLE -LIFE IN UNIVERSE - ROLE OF MIND

Friday Spirit

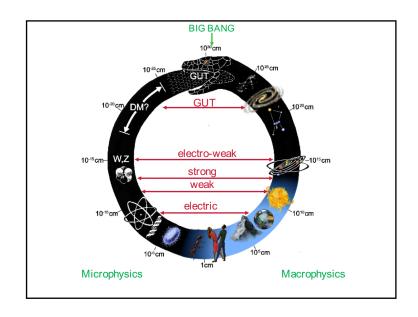
CONSCIOUSNESS – PSYCHIC AND SPIRITUAL EXPERIENCE – SURVIVAL

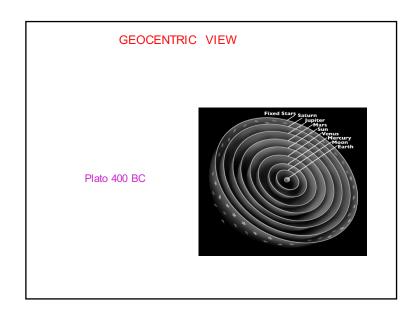
Saturday Space, Time and Consciousness

THEORIES OF PSI – SPACE FOR MIND – TIME FOR MIND

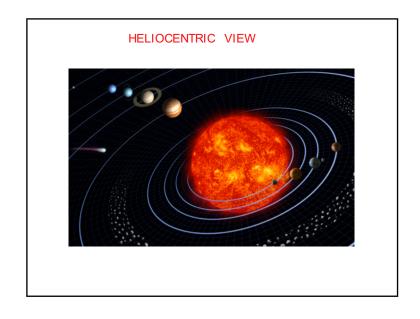
Sunday Seeking a new paradigm

HIGHER DIMENSIONS OF REALITY – SCIENCE AND SPIRIT – POST-MATERIALIST SCIENCE











Tycho Brahe (1546-1601)



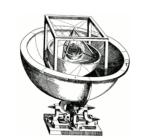


Supernova in Cassiopeia in 1572

"Crassa ingenia. O coecos coeli spectores" (Oh thick wits. Oh blind watchers of the sky) Preface of *De Nova Stella*

Johannes Kepler (1571-1630)





Laws of planetary motion

Galileo Galilei (1564-1642)

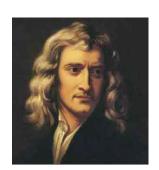




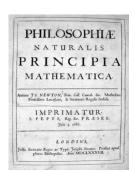




Isaac Newton (1642-1727)



"Principia" (1687)



"Blind fate could never produce the wonderful uniformity of the planetary movements. Gravity may put the planets into motion But without the divine power it could never put them into such circulating motions as they have."





August Comte (1859)

"Never, by any means, will we be able to study their chemical compositions [stars]. The field of positive philosophy lies entirely within the Solar System, the study of the Universe being inaccessible in any possible science."

GALACTOCENTRIC VIEW



The Great Debate (1921)

- Harlow Shapley (1885-1972)
 - believed it unlikely that nebulae could be outside the Galaxy
- Heber Curtis (1872-1942)
 - led group supporting "island universe" idea





Resolution of Debate

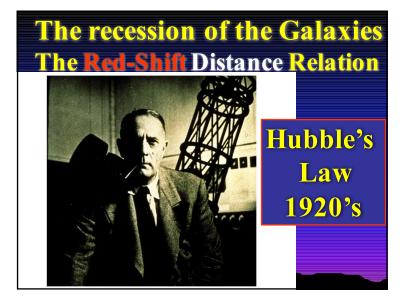
- Edwin Hubble (1889-1953)
 - measured distance to M31 (Andromeda) in 1925
 - using Cepheid variable stars
 - 500 kpc outside
 Galaxy (10 kpc in size)

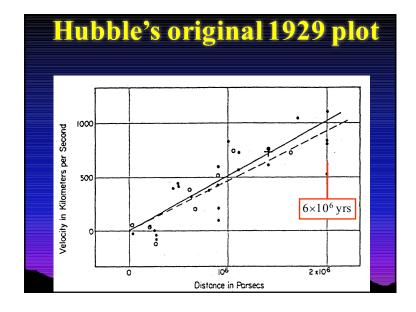




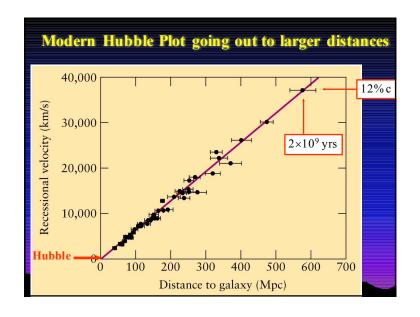


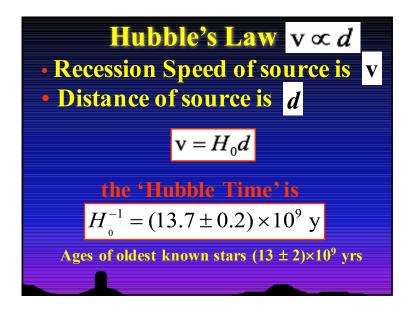


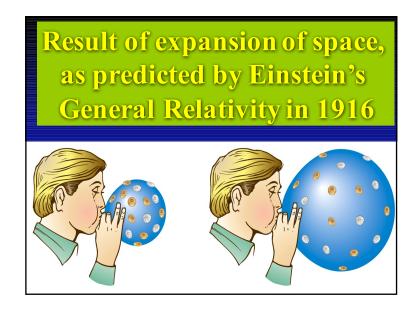


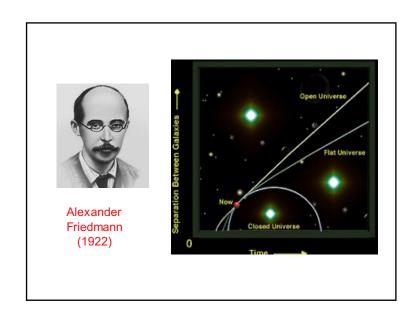


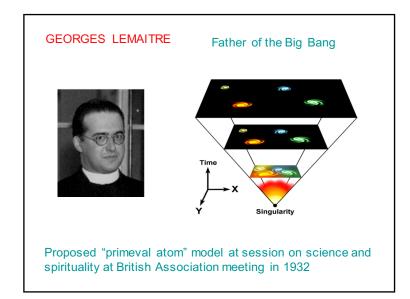


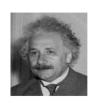












Einstein (1927) "Your maths is correct, but your physics is abominable."

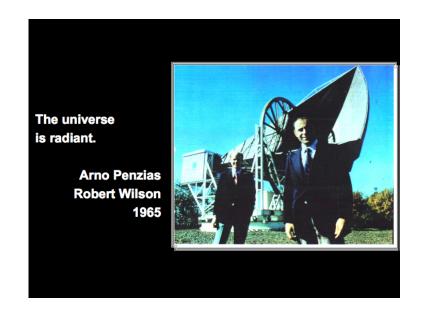


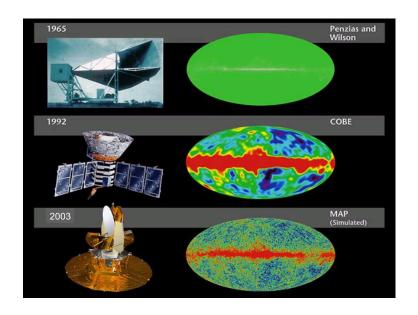
Eddington (1931) "Philosophically, the notion of a beginning of the present order of Nature is repugnant to me".

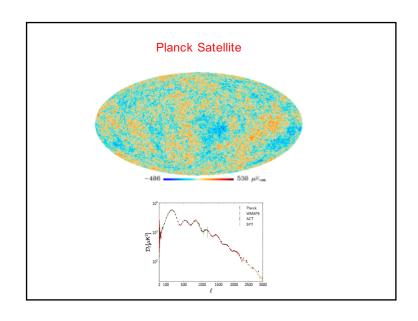


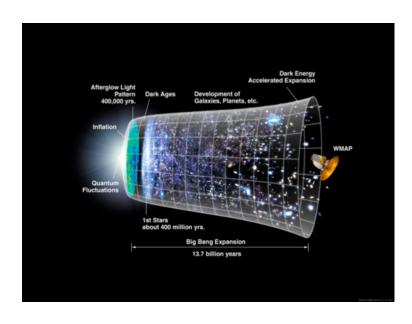
Don't let me hear anyone use the word 'Universe' in my Department!

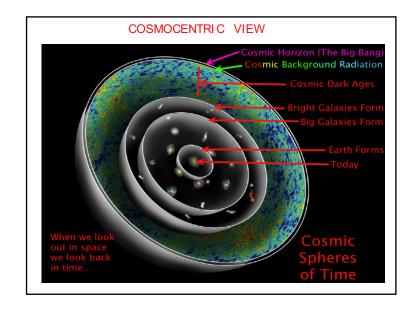
Attributed to Ernest Rutherford, Nobel Prize in Chemistry 1908

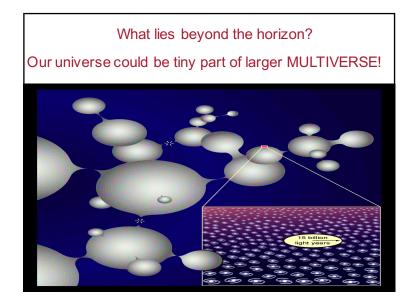


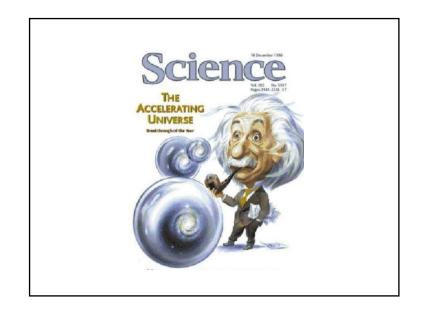


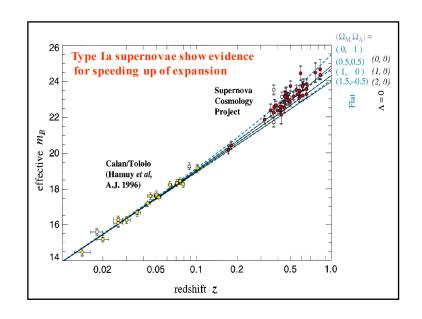


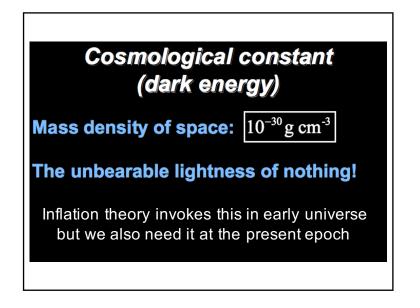


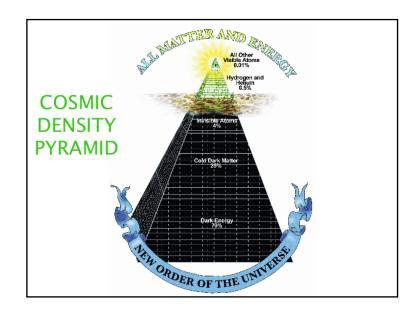












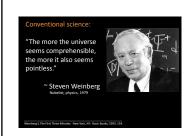
RESULT OF OUTWARD JOURNEY



What we call the "universe" is always growing

Humans have become increasingly insignificant

Heavens have been stripped of divinity



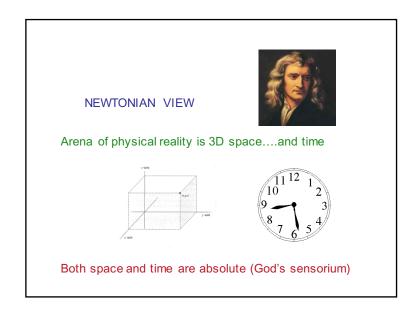


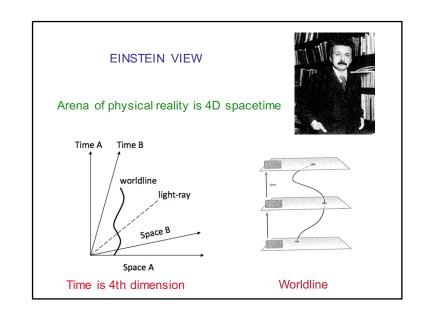
MUSICAL INTERLUDE

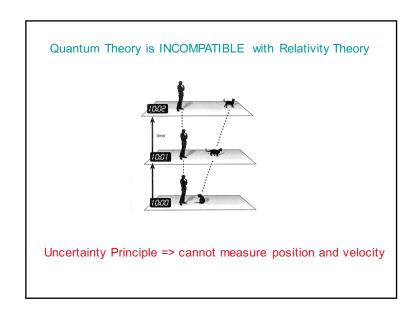
INWARD JOURNEY

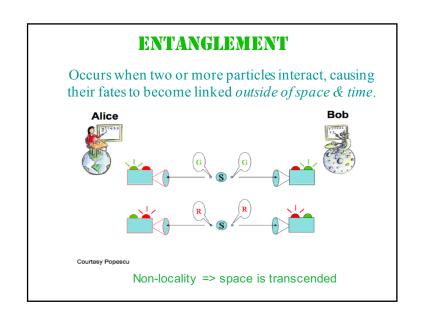
This has also shattered our view of physical reality

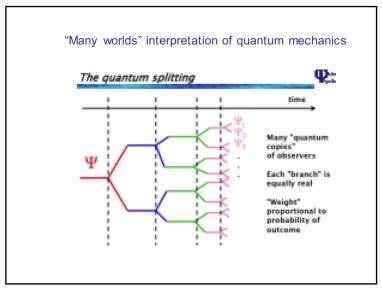
- Atomic theory
- Quantum theory
- Unification of forces
- Extra dimensions
- Quantum gravity

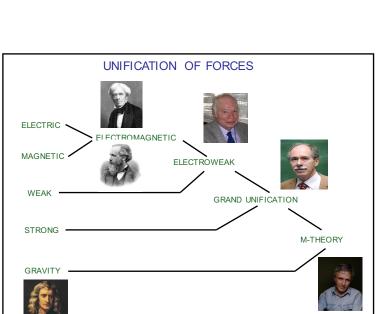




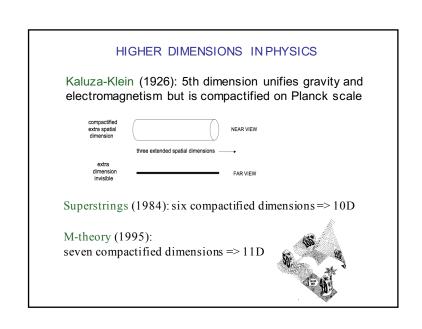




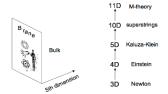




A guy goes to a psychiatrist and says, "Doc, my brother's crazy - he thinks he's a chicken!" The doctor says, "Well, why don't you turn him in?" The guy says, "I would, but I need the eggs!" Quantum theory is also crazy but we need the eggs. WANTED SCHROEDINGER'S CAT CAT DEAD AND ALIVE



Randall-Sundrum: 4D brane in higher-dimensional bulk



Physics gives sequence of paradigms with increasing dimensionality

.... with increasing remoteness from common sense reality

This is the price of UNIFICATION!

UNIFICATION OF CONCEPTS

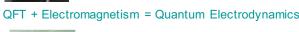
Space + Time = Special Relativity (SR)

Spacetime + Gravity = General Relativity (GR)





Quantum Theory + SR = Quantum Field Theory (QFT)







GR + QFT +Thermodynamics = Black Hole Radiation

Caltech 1975



