

## Article 3 of 6.

Discovered<sup>1</sup> **The Great Attractor of Galaxies** – a discovery beyond the knowledge & imagination of any one 'even of genius' in all the centuries & millennia before its discovery 1986<sup>1</sup>.

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**Now measured:** the entire Copernican Solar System & its contents, as parts of the local cluster of galaxies are moving at a minimum of 14 million miles per hour (6,000 kilometres per second) in a POLAR DIRECTION<sup>2</sup> in Universal space towards the Great Attractor of Galaxies located near the Hot Spot in the Universal Microwave Background Radiation<sup>3</sup>.

The above means that in the 8 minutes of time light takes to move across from the Sun to Earth both the Sun & Earth have moved position two million miles in a Polar Direction towards the Great Attractor of Galaxies & away from the Universal Cold Spot.

The above means when confirmed by Observatories worldwide: in the 400 earth years since Galileo 1609, human endeavour has discovered all three possible ways Earth can move in Universal Space at the same time ...on its Axis, sideways across, polar (upwards & outwards) from Origin of Big Bang Expanding Universe<sup>4</sup> Article 6b.

### **A tremendous human achievement.**

Discovered<sup>1</sup> – By seven astronomers somewhat derisively named the Seven Samurai of Aspen, Colorado, USA.

Polar Direction in space<sup>2</sup> – heresy today as the sideways movement of Earth in the Solar System was heresy 400 years ago or the sideways movements of continents 100 years ago.

But that was then, this is now.

Universal Radiation<sup>3</sup> – unpredicted by Albert Einstein or any of the 'quantum/atomic' Nobel Prize winners of the early 20<sup>th</sup> century when 'framing their theories'. They had to miss it out. We don't.

Origin<sup>4</sup> – datum for all Universal measurements, symbol 0, now measured as approx. 13.7 billion light years ago in time and distance from Earth by NASA among others.

**Origin – a Universal datum impossible (Einstein): true until the key technology came into the hands of modern astronomers.**

**Impossible: nearly impossible: evidence gathered: done.**

**Universal time abolished (Einstein & S Hawking 'Brief History') until NASA & others measured it at some 13.7 billion light years.**

**Universal space volume expands sideways only >>>Einstein & Hubble's flat/sagging mattress/no Big Bang Origin (it came later into the human knowledge base) & Milky Way Galaxy at the centre.**

**No key technology to observe & measure until 1986 a polar direction for Earth, Solar System or Local Cluster of Galaxies. So everyone before Einstein's relativities entered the textbooks labelled the polar direction – relative time.**

**Then quantum/atomic physicists labelled it – imaginary time & used imaginary numbers symbol  $i$ .**

**"I scarcely knew my own theory once the mathematicians had finished with it". Albert Einstein.**

**Note. Many scientific thinkers believe that physicists piling mathematical theories/models on top of others that cannot be tested by experiment (astronomers or otherwise) is the same method of approach that got the Ancient Greeks into a mess centuries ago.**

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**Action today on all space diagrams regardless of scale size ...cross out relative time & replace with Great Attractor of Galaxies. Cross out imaginary time & replace with Great Attractor. Cross out time on Minkowski (Einstein's maths tutor) diagrams & replace with Great Attractor. And re do the measurements.**

**Click on article 6b to gain a new perspective & map made possible by modern astronomers equipped with modern key technology & joined up thinking.**

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**In physics ALL key problems & Great Debates are either or problems with no compromise ...either the Earth or the Sun is at**

**the centre of the Solar System. Either there is a Polar Direction for the entire contents of the Copernican Solar System or not. Either the vacuums of space are filled with Dark Energy MEASURED as zero point energy or not.**

**Note: just because something cannot be measured with existing technology does not mean it cannot be measured with a different technology ...like an optical telescope 400 years ago.**

**Like a fast machine computer measuring ...Chaotic behaviour of weather patterns on planets.**

**Adams (UK) 2014.**