

# The Universe as 4 Dimensions

**Mass Radial length Time period Void**

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A new way of knowing our universe is described herein this paper. I consider the universe as fully described in terms of 4 dimensions namely mass, radial length, time period and void. Mass is fundamentally ether. Radial length simplifies the problem of frames of reference. Time period the inverse of frequency brings in a sense of absolute time. The void is space or volume without mass. The space or volume is portrayed by means of a volumetric radial length.

## Mass kg

Mass can be portrayed as two types

1. **Ether** mass that obeys the ether equation

$$K = \frac{m}{r} = \frac{\wp}{B} = \frac{1.859222909 \times 10^{-9}}{1.380668031 \times 10^{-36}}$$
$$K = 1.346611109 \times 10^{27} \text{ kg} / m$$

The mass  $\wp$  of the 186-ether particle and Boltzmann radius  $B$ , has been well characterized by me.

2. **Photon** mass,  $m$  that obeys the equation

$$e^2 = m \cdot r \cdot 10^7 \text{ Kg} \cdot m$$

A specific equation for 186-ether

$$q_e^2 = \wp \cdot B \cdot 10^7 \text{ Kg} \cdot m = \wp \cdot B_e \text{ Kg} \cdot m$$
$$q_e^2 = 1.859222909 \times 10^{-9} \times 1.380668031 \times 10^{-36} \times 10^7 \text{ Kg} \cdot m$$

3. **Aitheron** mass, 737

The non-composite fundamental mass in the universe is an aitheron, 737

$$m = 7.372496 \times 10^{-51} \text{ kg} .$$

Multiples of the aitheron mass, yields photon mass. The multiple number equals frequency.

## Radial Length m

The **ether** radial length,  $B$  of ether mass obtained from the ether constant ratio  $K$

$$K = \frac{m}{r} = \frac{\wp}{B} = \frac{1.859222909 \times 10^{-9}}{1.380668031 \times 10^{-36}}$$
$$K = 1.346611109 \times 10^{27} \text{ kg} / m$$

The **photon** radial length,  $r$  of photon mass is obtained from the equation for charge squared

$$e^2 = m \cdot r \cdot 10^7 \text{ Kg} \cdot m$$

## Time Period

Time period,  $t$  is the inverse of frequency measured in hertz. The time period of a photon mass,  $m$  can be calculated utilizing the aitheron mass  $7.372496 \times 10^{-51} \text{ kg}$ ,

One second is universal absolute time, an attribute of the aitheron mass.

$$m \cdot t = 7.372496 \times 10^{-51} \text{ kg} \cdot s \quad \text{or}$$

$$m \cdot t \cdot 137.036 = 7.372496 \times 10^{-51} \text{ kg} \cdot s$$

## The Void

The void is space or volume without mass. The space or volume is portrayed by means of a volumetric radial length. No void, no space for mass to wave.