

The dark matter, energy particles, the dust particles & the pre-mordial (1°) matter were drawn into singularity due to the infinite gravity & the coagulation of the matter produced a fireball. Heat was generated $\therefore$ of friction & collision.

Since the superimposed pressure kept $1g$, the inner density of the fireball reached its critical limit & the fireball exploded & the event was called "Big-Bang" which took place 13.6 or 14 bn years before present. So far only 1% of the matter has ejected & billions & billions of universe have been produced. Within an universe there are billions & billions of galaxies.

* The universe is expanding but the distance b/w galaxies are constant. $\therefore$ (centre of mass) of mutual gravitational attraction.

II. ORIGIN OF THE EARTH

Old theories:

- (a) Gaseous Hypothesis by Kant
- (b) Nebular Hypothesis by Laplace
- (c) Tidal hypothesis by Jeans & ~~and~~ Jeffreys
- (d) Binary hypothesis by Russell
- (e) Supernova Theory by Hoyle
- (f) collision hypothesis by Duffon