

Expanding Universe

In 1929, Hubble observed a trend that higher the redshift of Galaxy farther it is or put in another way farther the galaxy away from us it recedes faster. This formed the first observational evidence for expanding Universe, a host of other observations since then have strengthened the arguments that Universe is growing larger.

Einstein in his General theory of relativity proposed field equations which specify how the geometry of space and time is influenced by matter and energy content in the Universe:

$$G_{\mu\nu} + \Lambda g_{\mu\nu} = \frac{8\pi G}{c^4} T_{\mu\nu}$$