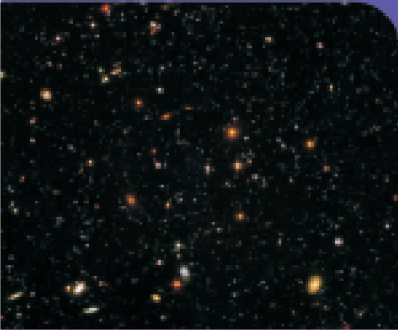


Expansion of the Universe



The beginning of the universe and its evolution....

The universe started as almost a singular point at very high energy density. As the total space of the universe started expanding the energy density started decreasing which lead to formation of the matter as we know it like stars and Galaxies.

The activity illustrates that recession velocities of the Galaxies is not to be considered as actual motions of the galaxies, but is an effect of the increase of space interval between the galaxies (Like increase in the area of the expanding balloon)

Activity

- Take a balloon and make a few dots on the balloon with a marker.
- When you blow the balloon, the dots marked on it recede (move away) from each other.
- Dots represent the galaxies. Expansion of the universe in three dimensional (space) is simulated in this activity (in two dimension) on the surface of the balloon.



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