

The Big Bang:

summary

Recall column

- Jim Peebles – award winning Princeton cosmologist; undergraduate degree from University of Manitoba.
- Following quotes are from Scientific American articles.
- That the **universe is expanding and cooling** is the essence of the big bang theory. You will notice I have said **nothing about an "explosion"**--the big bang theory describes **how our universe is evolving**, not how it began.

The Big Bang: Cosmologist Jim Peebles

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no centre →

- It is somewhat **misleading**, however, **to describe the expansion as** some type of **explosion** of matter away from some particular point in space.
- That is not the picture at all: in Einstein's universe the concept of space and the distribution of matter are intimately linked; the observed **expansion of the system of galaxies reveals the unfolding of space** itself.
- An essential feature of the theory is that the **average density in space declines as the universe expands**; the distribution of matter forms **no observable edge**.

no edge →