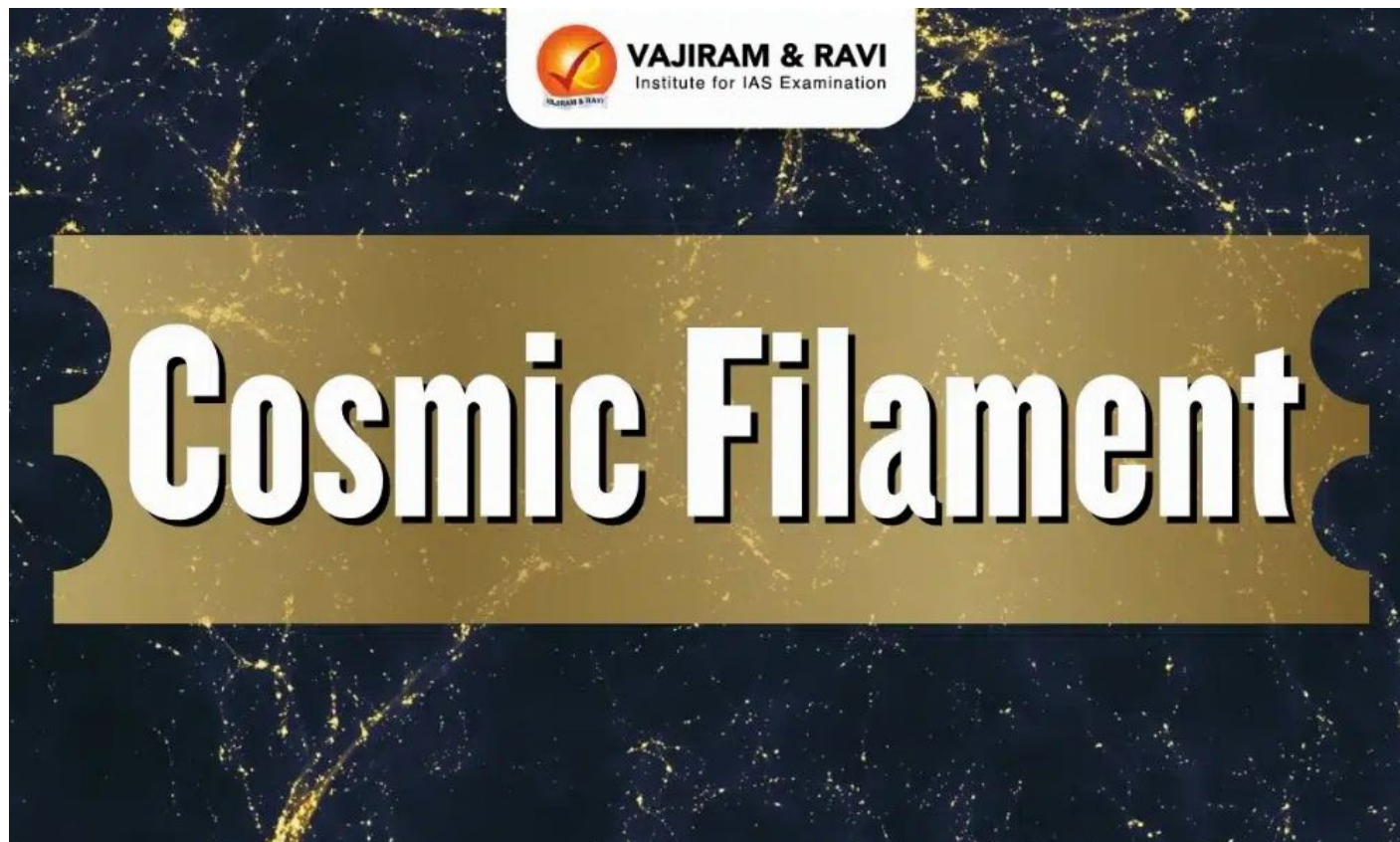


Cosmic Filament

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Cosmic Filament Latest News

Recently, the University of Oxford researchers reported a roughly 50-million-lightyear-long cosmic Filament traced by at least 14 galaxies.

About Cosmic Filament

- Cosmic or galaxy filaments are the largest **'threads' in the universe's cosmic web.**
- **Size:** A single cosmic filament is a structure spanning **hundreds of millions of lightyears.**
- These filaments are **the largest known structures** in the Universe which are vast, thread-like formations of galaxies and dark matter that form a **cosmic scaffolding.**
- These cosmic web filaments serve as the nurseries **where galaxies grow** by accreting pristine gas that fuels their star formation.
- **Formation**
 - It is formed as a result of **gravity pulling in gas, dark matter, and galaxies** into long, thin strands that link giant clusters of galaxies.

- These filaments also surround large, **empty regions of space called voids.**
- A filament forms where sheets of matter intersect and collapse; they're also highways along which gas and smaller galaxies 'flow' towards big clusters.
- **Significance:** These filaments help **decide where galaxies form**, how fast they grow, and how much fresh gas they receive over billions of years.

Source: TH

Source: <https://vajiramandravi.com/current-affairs/cosmic-filament/>

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