This is the state of the Universe, as brought to light by recent observations. About 70% of the Universe is "dark energy", a mysterious form of energy that accelerates the expansion of the Universe. About 30% is an unidentified substance Nor

Dark matter and large-scale structures

The birth of stars and galaxies We know from observations that galaxies already existed in the Universe about

Electrons combine with atomic nuclei erse, "the fog of the Universe lifted". Up until that time, the Universe was

The starting point in the creation of matter minutes after the birth of the Universe: that's the time it took to create all of the matter that exist in se around us. During these three minutes, the superheated Universe coded of is it expanded at an rate. Quarks, another type of elementary particle and a building block of matter, gathered to form

● Electron

■ ● Up quark

Town

The beginning of space and time —

Giving birth to the Universe — Starting from "Fluctuations in the 'Nothingness'"?

The human body, which could be compared to a small "Universe", comprises materials called elements. Modern science has determined that these elements originated in the stars and were scattered through space eons ago. Let's go

seas*. Various elements in the ocean are believed to have combined and undergone chemical

The stage is set for the formation of life

The formation of our Solar System, and the Earth

Exploding stars scatter elements throughout the Universe ernovae: The alchemy of the Universe

Stars that melt into the Universe



Old stars are element factories

Stars immediately before the end of their lives



Stars mature and shine in space

Nuclear fusion reactions and the life of a star



The birth and growth of stars

Protostars emit jets of gas



Elements in the constantly changing Universe Molecular clouds: the birthplace of stars







galaxies that are spread out across hundreds of millions of light years

The mesh of the Universe -

The first star brings light to the Universe

- Atoms appear, and the fog of the Universe lifts —

-The three minutes in which everything was created -

The Universe as a superheated fireball

"Inflation": The rapid expansion of the Universe

The fog of the 🏿 The Big Bang

at the moment of the beginning of the Big Bang, but this was only a small part of the Universe as a whole. Where in the Universe are v

Inflation

