



Illustrations by David A. Hardy, PURCHASE, N.Y.

THE EXPLODING UNIVERSE

by Roger Dunn

Photographed below is the Great Nebula in Andromeda.

If you stand on top of a hill on any clear day the most distant object you can pick out is most likely to be more than 20 or 30 miles away. But if you look up into the sky at night, you may see distant stars that are millions of miles away. Galaxies, or spiral, elliptical and irregular galaxies, are billions of miles away. Distance is, of course, the actual distance, or about 102 million million million miles. The light we see from the far-distant galaxies comes from over 10 billion light-years ago in M31, an edge-on, pinwheeling galaxy of the Milky Way, which is also known as the Great Spiral Nebula in Andromeda. A good time to look for it is in the autumn, when it appears as a faint haze in the constellation Andromeda, high in the Northern sky, between the "W" of Cassiopeia and the square of Perseus.

The luminous glow we see comes from M31, not just its center, but all its mass 10 billion years ago. It has taken all that time to reach us though it has been travelling—like light—at the incredible speed of 186,000 miles a second. Yet M31 is one of the nearest galaxies to our own. We should belong to a group of about 200 galaxies, which are loosely linked together by interlocking gravitational fields.

Four beyond the local group of galaxies are Andromeda, Sculptor, Centaurus and Cetus, which together form the Local Association of galaxies. We know that about 10,000 galaxies are in this group. Still higher lies within the view of the world's largest optical telescope, the 200-inch reflector at Mount Palomar.

They all seem to be moving away from each other at a terrific rate. The further away they are the faster they recede. Some distant ones appear to be moving at speeds approaching the speed of light.

It will this seems difficult to grasp, it is partly because our normal yardsticks of measurement and time—

inches and years—are meaningless when we think about the immenseness of outer space. Even the scientists who are studying the universe find it difficult to visualize the distances involved.

Most scientists believe, however, that all the galaxies are moving away from each other because the law of light from them can be explained by an expanding universe. In other words, the light from the galaxies is being stretched. This is photographed, and by the information it gives astrophysicists can tell that the galaxies are moving and how fast they are travelling.

One way of trying to imagine the galaxies and the universe is to think of a large balloon that is constantly expanding. It is covered with tiny dots—which represent the galaxies. They stay the same size, but move away from each other as the balloon expands.

WHIRLING SPIRALS.
Through big telescopes most galaxies look like a flattened, spiral whirlpool of stars. No two are exactly alike, however. Some, like the Great Spiral Galaxy, have arms which give the their special shape. Others are oval and some have no distinctive shape.

By studying M31 scientists have learned a lot about our own galaxy. For instance, big bubbles of the Milky Way, such as the Magellanic Clouds—whirl-shaped, and both contain thousands of millions of stars separated by huge clouds of gas and dust.

They study two galaxies which are closer to the Milky Way than M31 are the Magellanic Clouds, but they are not visible in the Northern Hemisphere. They can be seen clearly in Southern skies and look as if they are parts of the Milky Way which have broken loose.



The Exploding Newspaper

Jicheng Xie

The Exploding Newspaper:

The Enigmatic Realm of **The Exploding Newspaper**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing short of extraordinary. Within the captivating pages of **The Exploding Newspaper** a literary masterpiece penned with a renowned author, readers attempt a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting impact on the hearts and minds of people who partake in its reading experience.

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