



Beginning of the Milky Way

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ABOUT THE AUTHOR

Author, Gurjashan Singh Bhandal, a numismatist, was born in Chandigarh, Punjab, India. He is presently studying (2015) in Guru Nanak Public School Chandigarh. His dream is to provide free educational books and eBooks to crack entrance exams in India, written by him. Right now he is planning to write lessons from religious book for bringing transformation in life.

ABOUT THE BOOK

This book includes the brief introduction about the Milky Way galaxy and our solar system. After reading the book you will know about each and every planet along with their moons, the sun, constellations of stars, lunar vehicles and how to make your own telescope.

The book includes fewer photographs which will let the reader think how it would be and the only things which are difficult to think are having photographs. The book will increase both your tendency to think and will increase your knowledge.

DEDICATION

The book is dedicated to my father Jorawer Singh Bhandal and my maternal grandfather Sarjit Singh Saggu.

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TOPIC 1

Discovery, **F**ormation and **V**isibility

The Milky Way is a very immense and interesting place which is home of our planet Earth and the birthplace of humanity.

Millions of years back the mass of The Milky Way was very large, large enough that it used to spin quickly and relatively due to molecular interaction and this led to the conservation of the angular momentum.

Thus, the body collapsed from roughly spherical shape to disc known as the Milky Way.

Most of the astronomers thought that the Milky Way contained all the stars, but Edwin Hubble- an American astronomer, showed The Milky Way was one of many galaxies.

Let's understand how large our Milky Way is. Imagine that White House is of the size of our earth, then whole U.S.A will be about the size of our solar system and our solar system is about the size of the Milky Way where 98 percent of the mass of U.S.A is a sun and left 2 percent is of earth and other planets including their moons. Well, you can now imagine how big the Milky Way is.

The Milky Way forms an arm spiraling shape around its center. From above and below it, it will look like round dish and from edges it will be thin.

We can't view the whole Milky Way from the Earth because we are living in it and only a part of it can be seen directly from naked eyes.

The stars can be clearly viewed and have constellations which are explained in topics later. There are three types of stars in the Milky Way having different temperature. The white and blue stars have very high temperature. Yellow stars have intermediate temperature. Red stars have relatively cool temperature and are also known as Cool Stars.

Beginning of the Milky Way

The Milky Way wasn't as its today; it reached this size and shape by eating up several galaxies and still eating up.

Many astronomers believe that the center of The Milky Way is a black hole around which bodies are spinning and falling inside it. On Earth, a year is determined by the length of time it takes the planet to orbit the Sun. Every 365 days, we're right back where we started, generally speaking.

It makes sense then that our entire solar system is similarly orbiting the black hole at the center of the Milky Way. It just takes a little longer, to the tune of 250 million years for each rotation. In other words, we've made about a quarter of a single orbit since the dinosaurs died.

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