

Colliding Galaxies

Joel L Schiff

Colliding Galaxies Barry R. Parker,2013-11-11 I remember sitting spellbound, watching the movie When Worlds Collide. Two planets hurled through space toward Earth while scientists and engineers frantically raced to complete a rocket ship that would take them to safety. In the final moments the spaceship lifted off as the occupants watched the Earth bulge, crack, then literally explode as one of the planets struck it. As I left the theater I wondered if it was really possible for another world to collide with Earth. Later I learned that while many catastrophic collisions no doubt occurred early in the history of the solar system, today they are exceedingly rare. I was relieved, but in another sense I was disappointed (not that I hoped a collision of this type would actually occur). A collision of two objects in space, say, two stars, I was sure would be a spectacular event. It is quite unlikely, however, that we will ever witness the collision of two stars. The event is just too rare. But collisions of systems of stars-galaxies-oddly enough, are relatively common. In fact, we see evidence of several in the sky right now.

Cosmic Collisions Lars Lindberg Christensen,Davide de Martin,Raquel Yumi Shida,2010-04-07 Like no other telescope ever invented, the NASA/ESA Hubble Space Telescope has given us magnificent high resolution views of the gigantic cosmic collisions between galaxies. Hubble's images are snapshots in time and catch the colliding galaxies in different stages of collision. Thanks to a new and amazing set of 60 Hubble images, for the first time these different stages can be put together to form a still-frame movielike montage showing the incredible processes taking place as galaxies collide and merge. The significance of these cosmic encounters reaches far beyond aesthetics. Galaxy mergers may, in fact, be some of the most important processes that shape our universe. Colliding galaxies very likely, hold some of the most important clues to our cosmic past and to our destiny. It now seems clear that the Milky Way is continuously undergoing merging events, some small scale, others on a gigantic scale. And the importance of this process in the lives of galaxies is much greater than what was previously thought.

Galaxy Collisions Curtis Struck,2011-02-04 The spectacular images of galaxy collisions capture the imagination. This book will show what is out there in the universe, what it's like in other galaxies, what they might look like, and how cosmic processes might affect life in other solar systems. It will explain crucial stages in the development of physical structure in the universe, and the effect of galaxy scale processes. Professor Struck will explore all the issues surrounding galaxy collisions. He will begin with a brief broad review of the background on galaxies, the history of their discovery, and how this has been driven by steadily improving technology. Chapter 2 gives details of the early stages of different types of galaxy collision - Rings of Fire, Tidal Swings and Retrograde and Sideways Reels - while Chapter 3 describes collisions between galaxies of very different masses: minor merger or dwarf destruction. Chapter 4 covers ultra-luminous infrared galaxies and major mergers and Chapter 5 briefly examines the techniques used for computer simulation results and how increasing computer capacity has affected the development of this field. The following chapter looks at understanding the physical processes of triggered star formation and nuclear activity. Chapters 7-9 look at the broader view of cosmological structure growth which determines the environment and conditions in which galaxy collisions occur. In the densest environments, this process repeats itself on the larger scale of galaxy clusters. The concluding chapter considers what a galaxy collision looks like from a solar system like ours. Although the galaxy is completely restructured and the night sky view would change greatly over the course of several hundred million years, the direct effects on our planet would be few and infrequent, with only a small probability of being truly catastrophic. These issues will be explored along with the ideas that galaxies must reach a certain evolutionary maturity before they can even form solar systems, and that there are habitable zones within galaxies. Thus, galaxy scale processes, like collisions, can determine the fate of life on Earth-like planets.

Colliding Galaxies Barry R. Parker,2014-01-15

Colliding galaxies J. E. Barnes,Lars Hernquist,Francois Schweizer,1991

Paired and Interacting Galaxies International Astronomical Union. Colloquium,1990

The Milky Way Gregory Vogt,2003 Describes the objects that reside in the Milky Way galaxy, including stars, nebulae, clusters, and black holes, and explains what astronomers have discovered about other galaxies.

Colliding Galaxies: Global Star Formation and the Creation of Hot Galactic Halos Nathan Charles Hearn,2002

When Galaxies Collide Wayne Lutz,2012-10-26 When our Milky Way merges with the Andromeda Galaxy in 4.75 billion years, Earth will be facing even bigger problems than a cosmic collision. Two parallel worlds confront an uncertain future, while an astrophilosopher and a modern shaman struggle with decisions that will establish the fate of intelligent beings throughout the colliding spiral arms. Worlds separated by thousands of light-years are suddenly thrust together in challenges humans have never imagined.

Galaxy Interactions at Low and High Redshift J.E. Barnes,D.B. Sanders,2012-12-06 These proceedings offer professional astronomers an overview of the rapidly advancing subject of galaxy interactions at low and high redshifts. The symposium gave participants an exciting glimpse of a developing synthesis highlighting galactic encounters and their role in the history of the Universe.

When Galaxies Collide Lisa Harvey-Smith,2020 A book about space interspersed with fun anecdotes about an astronomer's life. In 2018 the author, Lisa Harvey-Smith, was appointed as the inaugural Australian Women in STEM Ambassador by the Australian Federal Government. In this book Harvey-Smith answers questions like: Why is the Milky Way blue? Why isn't a black hole dark? How many stars can you see with your naked eye? (9,000, but only half of that from any given point on Earth). How much hotter are blue stars than red ones? (38,000 degrees vs 3,000). Humans are the only known astronomers in the universe. When we look up at the night sky, we are linked to our ancestors. Away from city lights, we can see what generations of people before us have wondered at and weaved stories around. But all that will change. The Andromeda Galaxy is rushing towards us at 400,000 kilometres an hour. When Galaxies Collide will guide you to look at the night sky afresh. It peers 5.86 billion years into the future to consider the fate of Earth and its inhabitants. Will the solution be to live in space without a planet to call home? Will one of the other 100 billion planets spawn life?

When Galaxies Collide Wayne J. Lutz,2016-11-04 When our Milky Way merges with the Andromeda Galaxy in 4.75 billion years, Earth will be facing even bigger problems than a cosmic collision. Worlds separated by thousands of light-years are suddenly thrust together in challenges humans have never imagined.

Paired and Interacting Galaxies Jack W. Sulentic,William C. Keel,1990

The Most Interesting Galaxies in the Universe Joel L Schiff,2018-09-13 Prior to the 1920s it was generally thought, with a few exceptions, that our galaxy, the Milky Way, was the entire Universe. Based on the work of Henrietta Leavitt with Cepheid variables, astronomer Edwin Hubble was able to determine that the Andromeda Galaxy and others had to lie outside our own. Moreover, based on the work of Vesto Slipher, involving the redshifts of these galaxies, Hubble was able to determine that the Universe was not static, as had been previously thought, but expanding. The number of galaxies has also been expanding, with estimates varying from 100 billion to 2 trillion. While every galaxy in the Universe is interesting just by its very fact of being, the author has selected 51 of those that possess some unusual qualities that make them of some particular interest. These galaxies have complex evolutionary histories, with some having supermassive black holes at their core, others are powerful radio sources, a very few are relatively nearby and even visible to the naked eye, whereas the light from one recent discovery has been travelling for the past 13.4 billion years to show us its infancy, and from a time when the Universe was in its infancy. And in spite of the vastness of the Universe, some galaxies are colliding with others, embraced in a graceful gravitational dance. Indeed, as the Andromeda Galaxy is heading towards us, a similar fate awaits our Milky Way. When looking at a modern image of a galaxy, one is in awe at the sheer wondrous nature of such a magnificent creation, with its boundless secrets that it is keeping from us, its endless possibilities for harboring alien civilizations, and we remain left with the ultimate knowledge that we are connected to its glory.

Cosmic Odyssey Linda Schweizer,2020-11-24 From newborn galaxies to icy worlds and blazing quasars, a behind-the-scenes story of how Palomar Observatory astronomers unveiled our complex universe. Ever since 1936, pioneering scientists at Palomar Observatory in Southern California have pushed against the boundaries of the known universe, making a series of dazzling discoveries that changed our view of the cosmos: quasars, colliding galaxies, supermassive black holes, brown dwarfs, supernovae, dark matter, the never-ending expansion of the universe, and much more. In *Cosmic Odyssey*, astronomer Linda Schweizer tells the story of the men and women at Palomar and their efforts to decipher the vast energies and mysterious processes that govern our universe. Palomar was the Apollo mission of its era. The first images from the 200-inch George Ellery Hale telescope, commissioned in 1948 as the world's largest, generated as much excitement as images from the moon in 1969 and from the Hubble Space Telescope more recently. So far, Palomar's "Big Eye" and three other telescopes have yielded more than 75,000 telescope-nights of precious data. Schweizer takes readers behind the scenes of scientific discovery, mapping the often chaotic process of detours, dead ends, and serendipitous leaps of insight. Although her focus is on Palomar, she follows threads of discovery across the world to other teams and observatories. Based on more than one hundred interviews and enhanced by research in scientific journals, her account paints a fascinating picture of how discrete insights acquired over decades by researchers in a global community cascade, collide, and finally coalesce into the discoveries we come to accept as facts.

LWS Observations of the Colliding Galaxies NGC 4038/39 ,1996 Infrared Space Observatory (ISO) Long Wavelength Spectrometer (LWS) and ground-based Fabry-Perot imaging spectroscopic observations are used to penetrate the extinction to the powerful burst of star formation that has occurred in the extranuclear molecular cloud complex in the galaxy overlap region of the galaxies NGC 4038/39 (The Antennae). Parameters of the starburst and typical molecular cloud core characteristics are derived. It is found that the starburst can power the infrared luminosity of this galaxy system.

Dynamics of Galaxies and Their Molecular Cloud Distributions F. Combes,F. Casoli,1991-01-31 Proceedings of the 146th Symposium of the International Astronomical Union, held in Paris, France, June 4-9, 1990

A Catalogue of Southern Peculiar Galaxies and Associations: Volume 1, Positions and Descriptions Halton C. Arp,B. Madore,1987-05-29 This is the largest sample yet compiled of over 6,000 disturbed galaxies: observations of galaxies in collision, galaxies exploding or ejecting material, distorted galaxies, and galaxies in near collision with each other. Volume I contains positions in right ascension and declination, galactic latitude and longitude, and super-galactic latitude and longitude, accurate to 15 arcseconds.

Mass-Transfer Induced Activity in Galaxies Isaac Shlosman,2003-10-30 How gas flows and starbursts light up active galaxies.

Paired and Interacting Galaxies Jack W. Sulentic,Union astronomique internationale. Colloquium,1990

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